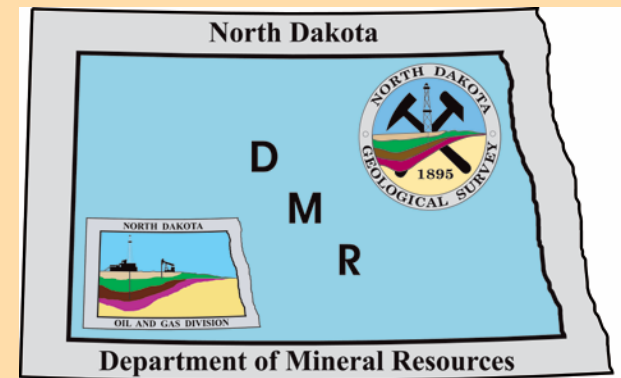
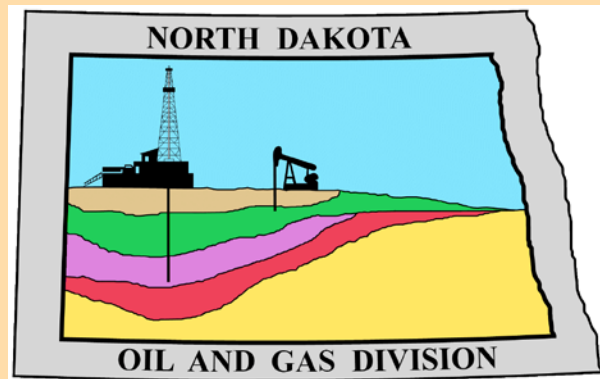


Accessing North Dakota Industrial Commission (NDIC) core, drill cutting, and thin section inventory records and data

Prepared by: *Timothy O. Nesheim*

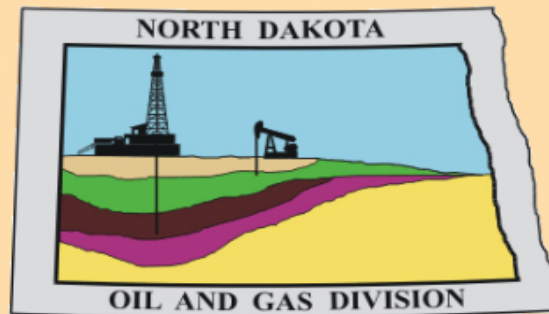
Last Updated: *8/8/2023*



Services

- Rules & Regulations
- Policies & Guidance
- Forms
- Hearing Dockets
- Active Drilling Rigs
- Daily Activity Reports
- Information Center
- Confidential Well List
- General Statistics
- Seismic
- Well Search
- Report a Spill/Incident
- Gathering Pipelines
- GIS Map Server
- Publications
- Surface Mineral Owner
- Basic Services
- Premium Services**
- Electronic Filing
- Related Links
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- Employment & Bid Opportunities
- Bakken and Three Forks Information
- Contact Us
- New Web Format

Core, thin section, and drilling cutting inventory records as well as core and drill cutting data can be accessed through the Premium Services function posted on the North Dakota Oil and Gas Division webpage.



North Dakota Oil & Gas

Lynn D. Helms, PhD., Director

Mark F. Bohrer, Assistant Director

[Click to visit the new Oil and Gas web format!](#)[24-Hr Hydraulic Fracture Notification Guidance](#)[IIJA \(Infrastructure Investment and Jobs Act\) Information](#)[NorthSTAR - North Dakota Statewide Tracking and Reporting System Information](#)

The Oil and Gas Division regulates the drilling and production of oil and gas in North Dakota. Our mission is to encourage and promote the development, production, and utilization of oil and gas in the state in such a manner as will prevent waste, maximize economic recovery, and fully protect the correlative rights of all owners to the end that the landowners, the royalty owners, the producers, and the general public realize the greatest possible good from these vital natural resources.



Adobe Acrobat Reader is required to view some content on this web site.



This web site was developed in cooperation with the Ground Water Protection Council (GWPC) and the Department of Energy (DOE) using the [Risk Based Data Management System](#) (RBDMS). RBDMS is a winner of a DOE Energy 100 Award.

Website: <https://www.dmr.nd.gov/oilgas/>

Phone: (701) 328-8020

Fax: (701) 328-8022

Mail: NDIC Oil and Gas Division
600 East Boulevard Ave Dept 405
Bismarck, ND 58505-0840

General Shipping

NDIC Oil and Gas Division
1016 East Calgary Ave
Bismarck, ND 58503-5512

Core and Samples Shipping

ND Geological Survey Core Library
2835 Campus Rd.
Grand Forks, ND 58202

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This is an Adobe Acrobat PDF fill-in form that contains the instructions on page one, and the sign-up form on page two. If you have further questions about this service, please contact us at (701) 328-8020.

Field Orders, Case Files, and Hearing Audio Files

This section contains a complete index for all Commission orders and their associated case files. The index contains the order number, case number, date signed and a brief description of the order contents. All orders are available on the server and have full text search capability. Scanned case files with exhibits are available in Adobe PDF format. New case files will be available 15 to 30 days after the hearing. Hearing audio recordings are available for most cases from September 1983 to current. New audio recordings are generally available a few days after the hearing.

Interactive Map Tools

These are GIS map tools. In the GIS map server, when wells are identified, clicking on the file number in the results pane will take you to the Scout Ticket page and clicking on the field name will take you to the Field Order Index page for that particular field. When fields are identified, you can also get to the Field Order Index page for that field in the same way. The Gas Analysis map service was developed through a cooperative effort between the PCOR Partnership and the ND Department of Mineral Resources and is hosted on the UND EERC web site. You can use this GIS and graphing interface to explore the nature and extent of gas composition data in the Williston Basin.

Well Data

This section contains a complete index of all wells permitted in North Dakota in a Microsoft Excel spreadsheet saved with Zip compression. The scout ticket data contains basic well information, log tops, completion data, initial production tests, cumulative production and injection volumes, well performance curves, drill stem test recoveries, core and thin section photographs, and cores and samples available at the NDGS Core Library in Grand Forks, ND. The well files are scanned into Adobe PDF documents that include all forms, letters, geological reports, drill stem test reports, core analysis reports, and other miscellaneous information. All well files are available, except for confidential wells or confidential information. Our entire log inventory has been scanned into TIFF image format. More than 100,600 digital and image logs are available for over 18,650 wells.

Production and Injection Volumes

Production and injection histories are available on a well, unit or field-pool basis. They are displayed in a table format with the most current data displayed at the top of the table. You may also view a performance curve of a well, unit or field. Production and injection numbers for confidential wells are not included. The stripper well assistant is a tool that you can use to determine if wells or units may qualify as a stripper well property.

Unitization

This shows various statistics about all of the units that have been formed in North Dakota. This is a good place to start for operators looking to form a new unit.

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There are a few ways to access core information and data. If you know the NDIC and/or API well number for a well/core of interest, you can select the "Scout Ticket Data" option.

Related Links

Premium Services

Code Definitions

Digital & Image Logs


Get Well Scout Ticket Data



Data Services Notification:

January 19, 2022 Data Services Update: Oil and Gas Division well data is updating hourly - This includes wells shown in the GIS Map Server, Well Index, and more. Data still remaining to be upgraded includes: Rig List, Docket/Hearing updates, and Pool information. Check this alert frequently for updated progress on website services and any questions regarding can be emailed to oilandgasinfo@nd.gov.

Enter File Number:
Or Enter API Number:

A red arrow points from the right towards the input fields, highlighting the area where the user should enter their file number or API number.

Please enter well file number or API number to retrieve.

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Next, enter in either the NDIC or API well number.



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Unitization

[Unitization Stats](#)

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Alternatively, the core, drill cutting, and thin section inventory database can be searched through the “Core Search” function.

Related Links

[Premium Services](#)[Code Definitions](#)[Scout Ticket Data](#)[Well Files](#)[Digital & Image Logs](#)[Core Photo/Thin
Section Download](#)

Search for Cores and Samples in NDGS Core Library

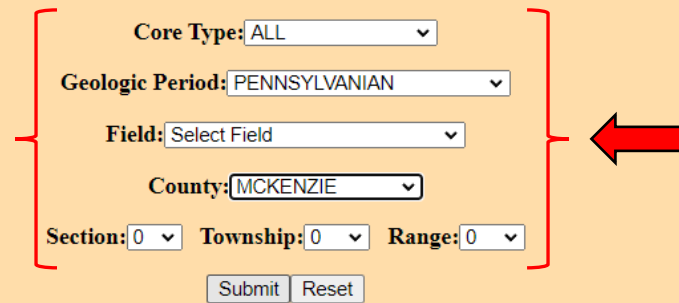
Core Type:

Geologic Period:

Field:

County:

Section: Township: Range:



Please Select From One or More of Field, County, or Location and click on [Submit]

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Through the “Core Search” function, the sample inventory can be searched.



- Related Links
- Premium Services
- Code Definitions
- Scout Ticket Data
- Well Files
- Digital & Image Logs
- Core Photo/Thin Section Download

Curious about the meaning of the various abbreviations? Select 'Code Definitions' and manipulate drop-down for references

Search for Cores and Samples in NDGS Core Library

Core Type:

Geologic Period:

Field:

County:

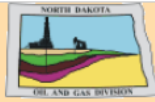
Section: Township: Range:

Search for Type = "CORES" Period = "PENNSYLVANIAN" County = "MCKENZIE"

Click on the "FileNo" for a well to see scout ticket data.

Core Type	Core Fmtn	Depth	Library Loc	File No	API No	Well Location	Original Operator	Original Well Name
C	PN-T	8082-8105	9602	2723	3305300466	SWNE 10-145-101	HUNT OIL COMPANY	U.S.A. "A" #1
LS	PN-T	7706-7817	17902	20418 [ViewCore]	3305303476	NWNW 11-145-105	WHITING OIL AND GAS CORPORATION	ONEIL CREEK FEDERAL 11-11TFH
LS	PN-T	7817-7822	17802	20418 [ViewCore]	3305303476	NWNW 11-145-105	WHITING OIL AND GAS CORPORATION	ONEIL CREEK FEDERAL 11-11TFH
LS	PN-T	7695-7706	18002	20418 [ViewCore]	3305303476	NWNW 11-145-105	WHITING OIL AND GAS CORPORATION	ONEIL CREEK FEDERAL 11-11TFH
CS	PN-T	7695-7822	C124	20418 [ViewCore]	3305303476	NWNW 11-145-105	WHITING OIL AND GAS CORPORATION	ONEIL CREEK FEDERAL 11-11TFH
WC	PN-T	8153-8183	7908	2667	3305300461	SWNW 14-146-101	TEXACO INC.	MARY PACE #1
LS	PN-A	8406-8458	31203	22104 [ViewCore]	3305303913	NWNE 14-148-99	CONTINENTAL RESOURCES, INC.	MORISON 1-14H
LS	PN-T	8458-8638	31303	22104 [ViewCore]	3305303913	NWNE 14-148-99	CONTINENTAL RESOURCES, INC.	MORISON 1-14H
LS	PN-T	8245-8275	9002	16581 [ViewCore]	3305302794	NESW 14-149-100	WHITING OIL AND GAS CORPORATION	CURL 23-14
LS	PN-T	8185-8245	8902	16581 [ViewCore]	3305302794	NESW 14-149-100	WHITING OIL AND GAS CORPORATION	CURL 23-14
CS	PN-T	8185-8275	C155	16581 [ViewCore]	3305302794	NESW 14-149-100	WHITING OIL AND GAS CORPORATION	CURL 23-14
C	PN-T	7709-7746	13006	1309	3305300182	SESW 20-150-94	ANSCHUTZ DRILLING CO.	R. S. MATTHEWS #1
LS	PN-A	7334-7454	32704	26249 [ViewCore]	3305305226	NENW 17-150-104	WHITING OIL AND GAS CORPORATION	KARST 21-17-1H
CS	PN-A	7334-7454	C61	26249 [ViewCore]	3305305226	NENW 17-150-104	WHITING OIL AND GAS CORPORATION	KARST 21-17-1H
CS	PN-T	7910-8228	C214-224	21148 [ViewCore]	3305303671	SESW 11-152-99	CONTINENTAL RESOURCES, INC.	PASADENA 1-11H
LS	PN-T	7910-8228	31403	21148 [ViewCore]	3305303671	SESW 11-152-99	CONTINENTAL RESOURCES, INC.	PASADENA 1-11H
LS	PN-T	7290-7379	4802	3167 [ViewCore]	3305300509	SESW 31-153-95	TEXACO INC.	W. QUALE #1

Samples that meet the selected criteria will appear in a spreadsheet format as above. Users can then click on either the NDIC well number to bring up the Scout Ticket page for the given well or click on "ViewCore" to go to the Core Viewer.



- Related Links
- Premium Services
- Code Definitions
- Digital & Image Logs
- Map This Well
- Get Incident History
- Get Well File

Get Well Scout Ticket Data

Data Services Notification:

January 19, 2022 Data Services Update: Oil and Gas Division well data is updating hourly - This includes wells shown in the GIS Map Server, Well Index, and more. Data still remaining to be upgraded includes: Rig List, Docket/Hearing updates, and Pool information. Check this alert frequently for updated progress on website services and any questions regarding can be emailed to oilandgasinfo@nd.gov.

Well File Last Modified:
1/31/2022 8:38:00 AM

Enter File Number:
 Or Enter API Number:

[Get Scout Ticket Data](#)

NDIC File No: **16581** API No: **33-053-02794-00-00** County: **MCKENZIE** CTB No: **116581**
 Well Type: **SWD** Well Status: **A** Status Date: **3/15/2020** Wellbore type: **VERTICAL**
 Location: **NESW 14-149-100** Footages: **2515 FSL 1450 FWL** Latitude: **47.724997** Longitude: **-103.448824**

Current Operator: **Tallgrass Water North Dakota, LLC**
 Original Operator: **WHITING OIL AND GAS CORPORATION**
 Current Well Name: **CURL 23-14**
 Original Well Name: **CURL 23-14**
 Elevation(s): **2255 KB 2225 GL** Total Depth: **14147** Field: [ELLSWORTH](#)
 Spud Date(s): **4/15/2008**

Digital or Image Log(s) available: [AC-AIG-CND.las](#) 6.3MB, [AC](#) 11MB, [AIG-CND](#) 13.1MB, [AIG-CND1.las](#) 229KB, [AIG-CND2.las](#) 334KB, [AIG-CND3.las](#) 206KB, [AIG-CND4.las](#) 288KB, [AIG-CND5.las](#) 241KB, [AIG-CND6.las](#) 358KB, [AIG](#) 13.8MB, [CAL](#) 18.6MB, [CBL1.las](#) 5.7MB, [CBL1](#) 8.4MB, [CBL2.las](#) 1.3MB, [CBL2](#) 2.6MB, [CND](#) 12MB, [DTSM1](#) 11.5MB, [DTSM2](#) 446KB, [DTSM3](#) 463KB, [FMT](#) 7.1MB, [SPL.las](#) 2.9MB, [SPL](#) 10.5MB

Formation Tops
 K-P 1922 K-GH 4733 K-M 5163 K-N 5307 K-IK 5552 J-S 5977
 J-R 6481 T-S 7068 PM-MK 7529 PM-OP 7560 PM-EBA 7830 PN-T 8079
 M-EBS 8291 M-KL 8620 M-MD 8769 M-MDR 9350 M-MDLS 9425 M-MDFA 9630
 M-MDLP 10140 MD-B 10969 D-TF 11037 D-BB 11259 D-DP 11350 D-SR 11773
 D-DB 12036 D-PE 12129 D-W 12316 S-I 12581 S-CL 12952 O-G 13566
 O-ST 13650 O-RR 13719

Casing String(s): **9.625" 2004' 5.5" 14145'**

Completion Data
 Pool: **RED RIVER** Perfs: **13914-13943 G** Comp Dt: **10/15/2008** Status: **PNA** Status Dt: **11/18/2014** Spacing: **W2**
 Pool: **DAKOTA** Perfs: **5666-5900** Comp Dt: **11/19/2014** Status: **SWD** Status Dt: **11/19/2014**

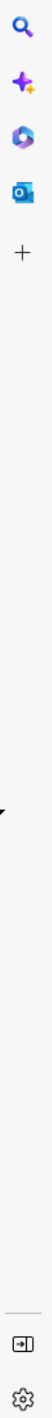
Cumulative Production Data [Get Production History](#)
 Pool: **RED RIVER** Cum Oil: **41032** Cum MCF Gas: **797662** Cum Water: **15821** [Interactive Performance Curve] [\[PDF Curve\]](#)

Cumulative Injection Data [Get Injection History](#)
 UIC No: **W0426S0906C** Pool: **DAKOTA** Cum Salt Water Disposed: **4601449**

Production Test Data
 IP Test Date: **10/19/2008** Pool: **RED RIVER** IP Oil: **108** IP MCF: **2248** IP Water: **36**

Cores and Samples
[Core Photo Viewer](#) [Core Photo/Thin Section Download](#)

Once in the Scout Ticket page of a given well, scroll down to see the available samples for the given well.



Current Operator: **Tallgrass Water North Dakota, LLC**
Original Operator: **WHITING OIL AND GAS CORPORATION**
Current Well Name: **CURL 23-14**
Original Well Name: **CURL 23-14**
Elevation(s): **2255 KB 2225 GL** Total Depth: **14147** Field: [ELLSWORTH](#)
Spud Date(s): **4/15/2008**

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Formation Tops
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J-R 6481 T-S 7068 PM-MIK 7529 PM-OP 7560 PM-EBA 7830 PN-T 8079
M-EBS 8291 M-KL 8620 M-MD 8769 M-MDR 9350 M-MDLS 9425 M-MDFA 9630
M-MDLP 10140 MD-B 10969 D-TF 11037 D-BB 11259 D-DP 11350 D-SR 11773
D-DB 12036 D-PE 12129 D-W 12316 S-I 12581 S-CL 12952 O-G 13566
O-ST 13650 O-RR 13719

Casing String(s): **9.625" 2004' 5.5" 14145'**

Completion Data
Pool: **RED RIVER** Perfs: **13914-13943 G** Comp Dt: **10/15/2008** Status: **PNA** Status Dt: **11/18/2014** Spacing: **W2**
Pool: **DAKOTA** Perfs: **5666-5900** Comp Dt: **11/19/2014** Status: **SWD** Status Dt: **11/19/2014**

Cumulative Production Data [Get Production History](#)
Pool: **RED RIVER** Cum Oil: **41032** Cum MCF Gas: **797662** Cum Water: **15821** [Interactive Performance Curve] [[PDF Curve](#)]

Cumulative Injection Data [Get Injection History](#)
UIC No: **W0426S0906C** Pool: **DAKOTA** Cum Salt Water Disposed: **4601449**

Production Test Data
IP Test Date: **10/19/2008** Pool: **RED RIVER** IP Oil: **108** IP MCF: **2248** IP Water: **36**

Cores and Samples
[Core Photo Viewer](#) [Core Photo/Thin Section Download](#)

Core, thin section, and drill cutting sample records are displayed at the bottom of each Scout Ticket page.

- Type: **CS** Top: **8185** Bottom: **8275** Formation: **PN-T** } **Curator Set (CS) core intervals with formation assignments**
- Type: **CS** Top: **11033** Bottom: **11096** Formation: **D-TF** }
- Type: **DC** Top: **7100** Bottom: **14147** } **Drill cutting sample intervals**
- Type: **DC** Top: **8185** Bottom: **8275** }
- Type: **DC** Top: **11033** Bottom: **11093** }
- Type: **LS** Top: **8185** Bottom: **8245** Formation: **PN-T** } **Large Slab (LS) core intervals with formation assignments**
- Type: **LS** Top: **8245** Bottom: **8275** Formation: **PN-T** }
- Type: **LS** Top: **11033** Bottom: **11096** Formation: **D-TF** }
- Type: **TS** Top: **8186** Bottom: **8259** } **Gross depth intervals with thin sections**
- Type: **TS** Top: **8190** Bottom: **8273** }
- Type: **TS** Top: **8191** Bottom: **8255** }
- Type: **TS** Top: **11035** Bottom: **11089** }
- Type: **TS** Top: **11056** Bottom: **11086** }

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M-EBS 8291 M-KL 8620 M-MD 8769 M-MDR 9350 M-MDLS 9425 M-MDFA 9630
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D-DB 12036 D-PE 12129 D-W 12316 S-I 12581 S-CL 12952 O-G 13566
O-ST 13650 O-RR 13719

Formation tops picked by NDIC geologist using available wireline logs.

Casing String(s): **9.625" 2004' 5.5" 14145'**

Completion Data
Pool: **RED RIVER** Perfs: **13914-13943 G** Comp Dt: **10/15/2008** Status: **PNA** Status Dt: **11/18/2014** Spacing: **W2**
Pool: **DAKOTA** Perfs: **5666-5900** Comp Dt: **11/19/2014** Status: **SWD** Status Dt: **11/19/2014**
Cumulative Production Data [Get Production History](#)
Pool: **RED RIVER** Cum Oil: **41032** Cum MCF Gas: **797662** Cum Water: **15821** [Interactive Performance Curve] [[PDF Curve](#)]

Cumulative Injection Data [Get Injection History](#)
UIC No: **W0426S0906C** Pool: **DAKOTA** Cum Salt Water Disposed: **4601449**
Production Test Data
IP Test Date: **10/19/2008** Pool: **RED RIVER** IP Oil: **108** IP MCF: **2248** IP Water: **36**
Cores and Samples
[Core Photo Viewer](#) [Core Photo/Thin Section Download](#)

Always note that the Formation Tops listed on the Scout Ticket page do not always match the core, drill cutting, and thin section depth records. Core and drill cutting samples typically have to be depth adjusted/corrected to fit the wireline log depths. This depth correction is generally on the order of several feet or less but can exceed a 100+ ft. offset.

Type: **CS** Top: **8185** Bottom: **8275** Formation: **PN-T**
Type: **CS** Top: **11033** Bottom: **11096** Formation: **D-TF**
Type: **DC** Top: **7100** Bottom: **14147**
Type: **DC** Top: **8185** Bottom: **8275**
Type: **DC** Top: **11033** Bottom: **11093**
Type: **LS** Top: **8185** Bottom: **8245** Formation: **PN-T**
Type: **LS** Top: **8245** Bottom: **8275** Formation: **PN-T**
Type: **LS** Top: **11033** Bottom: **11096** Formation: **D-TF**
Type: **TS** Top: **8186** Bottom: **8259**
Type: **TS** Top: **8190** Bottom: **8273**
Type: **TS** Top: **8191** Bottom: **8255**
Type: **TS** Top: **11035** Bottom: **11089**
Type: **TS** Top: **11056** Bottom: **11086**

Sample depth intervals as reported by original operator.



Get Well Scout Ticket Data

- Related Links
- Premium Services
- Code Definitions
- Digital & Image Logs
- Map This Well
- Get Incident History
- Get Well File

Data Services Notification:

January 19, 2022 Data Services Update: Oil and Gas Division well data is updating hourly - This includes wells shown in the GIS Map Server, Well Index, and more. Data still remaining to be upgraded includes: Rig List, Docket/Hearing updates, and Pool information. Check this alert frequently for updated progress on website services and any questions regarding can be emailed to oilandgasinfo@nd.gov.

Well File Last Modified:
1/31/2022 8:38:00 AM

Enter File Number:
 Or Enter API Number:

[Get Scout Ticket Data](#)

NDIC File No: **16581** API No: **33-053-02794-00-00** County: **MCKENZIE** CTB No: **116581**
 Well Type: **SWD** Well Status: **A** Status Date: **3/15/2020** Wellbore type: **VERTICAL**
 Location: **NESW 14-149-100** Footages: **2515 FSL 1450 FWL** Latitude: **47.724997** Longitude: **-103.448824**

Current Operator: **Tallgrass Water North Dakota, LLC**
 Original Operator: **WHITING OIL AND GAS CORPORATION**
 Current Well Name: **CURL 23-14**
 Original Well Name: **CURL 23-14**
 Elevation(s): **2255 KB 2225 GL** Total Depth: **14147** Field: **ELLSWORTH**
 Spud Date(s): **4/15/2008**

Digital or Image Log(s) available: [AC-AIG-CND.las](#) 6.3MB, [AC](#) 11MB, [AIG-CND](#) 13.1MB, [AIG-CND1.las](#) 229KB, [AIG-CND2.las](#) 334KB, [AIG-CND3.las](#) 206KB, [AIG-CND4.las](#) 288KB, [AIG-CND5.las](#) 241KB, [AIG-CND6.las](#) 358KB, [AIG](#) 13.8MB, [CAL](#) 18.6MB, [CBL1.las](#) 5.7MB, [CBL1](#) 8.4MB, [CBL2.las](#) 1.3MB, [CBL2](#) 2.6MB, [CND](#) 12MB, [DTSM1](#) 11.5MB, [DTSM2](#) 446KB, [DTSM3](#) 463KB, [FMT](#) 7.1MB, [SPL.las](#) 2.9MB, [SPL](#) 10.5MB

Formation Tops
 K-P 1922 K-GH 4733 K-M 5163 K-N 5307 K-IK 5552 J-S 5977
 J-R 6481 T-S 7068 PM-MK 7529 PM-OP 7560 PM-EBA 7830 PN-T 8079
 M-EBS 8291 M-KL 8620 M-MD 8769 M-MDR 9350 M-MDLS 9425 M-MDFA 9630
 M-MDLP 10140 MD-B 10969 D-TF 11037 D-BB 11259 D-DP 11350 D-SR 11773
 D-DB 12036 D-PE 12129 D-W 12316 S-I 12581 S-CL 12952 O-G 13566
 O-ST 13650 O-RR 13719

Casing String(s): **9.625" 2004' 5.5" 14145'**
 Completion Data
 Pool: **RED RIVER** Perfs: **13914-13943 G** Comp Dt: **10/15/2008** Status: **PNA** Status Dt: **11/18/2014** Spacing: **W2**
 Pool: **DAKOTA** Perfs: **5666-5900** Comp Dt: **11/19/2014** Status: **SWD** Status Dt: **11/19/2014**

Cumulative Production Data [Get Production History](#)
 Pool: **RED RIVER** Cum Oil: **41032** Cum MCF Gas: **797662** Cum Water: **15821** [Interactive Performance Curve] [[PDF Curve](#)]

Cumulative Injection Data [Get Injection History](#)
 UIC No: **W0426S0906C** Pool: **DAKOTA** Cum Salt Water Disposed: **4601449**

Production Test Data
 IP Test Date: **10/19/2008** Pool: **RED RIVER** IP Oil: **108** IP MCF: **2248** IP Water: **36**

Cores and Samples
[Core Photo Viewer](#) [Core Photo/Thin Section Download](#)

Most available core and sample analyses are available within the well file, which can be accessed through the "Get Well File" tab.

Table of Contents

- Letter 4/24/20 (BH)
- Letter - 4/15/20 (RM)
- Form 6 - Red River
- Form 6 - Red River
- Form 6 - Red River
- ▶ Form 4
- Core
- Form 1
- Letter-Oct. 4, 2019
- ▶ W16581.pdf



AUTHORIZATION TO PURCHASE AND TRANSPORT OIL FROM LEASE - FORM 8
 INDUSTRIAL COMMISSION OF NORTH DAKOTA
 OIL AND GAS DIVISION
 600 EAST BOULEVARD DEPT 405
 BISMARCK, ND 58505-0840
 SFN 5698 (03-2000)

Received
 DEC 27 2021

50179
 Well File No
 16581
 NDIC CTR No
 650179

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
 PLEASE SUBMIT THE ORIGINAL.

ND Oil & Gas Division

Well Name and Number Curl 23-14	Qtr-Qtr NESW	Section 14	Township 149 N	Range 100 W	County McKenzie
Operator TALLGRASS WATER NORTH DAKOTA, LLC	Telephone Number 303-763-3108	Field Ellsworth			
Address 370 Van Gordon Street	City Lakewood	State CO	Zip Code 80228		

Name of First Purchaser Devlar Energy Marketing, LLC	Telephone Number 303-683-4242	% Purchased 85	Date Effective September 1, 2020		
Principal Place of Business 384 INVERNESS PARKWAY STE 150	City ENGLEWOOD	State CO	Zip Code 80112		
Field Address	City	State	Zip Code		

Name of Transporter Endeavor Crude, LLC	Telephone Number 701-580-1490	% Transported 70	Date Effective April 1, 2021		
Address 4801 11th Ave West #212	City Williston	State ND	Zip Code 58801		

The above named producer authorizes the above named purchaser to purchase the percentage of oil stated above which is produced from the lease designated above until further notice. The oil will be transported by the above named transporter.

Other First Purchasers Purchasing From This Lease IHD Liquid Management, LLC	% Purchased 10	Date Effective September 1, 2020			
Other First Purchasers Purchasing From This Lease	% Purchased	Date Effective			
Other Transporters Transporting From This Lease JMAC	% Transported 5	Date Effective November 1, 2021			
Other Transporters Transporting From This Lease Moon River Field Services	% Transported 10	Date Effective November 1, 2021			

Comments
Other Purchasers: DWS LLC 5% effective 9/1/2020
Other Transporter: DWS LLC 5% effective 9/1/2020, Stateline, LLC effective 11/1/2021 10%

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.		Date December 1, 2021
Signature 	Printed Name Jennifer Linden	Title Coordinator

Most well files contain bookmarks for various forms and reports including core data usually listed under the heading of "Core." Selecting the "Core" bookmark tab will bring you directly to the available core analysis. Please note that occasionally, not all core analysis data may be properly bookmarked.

Table of Contents

- Letter 4/24/20 (BH)
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- Letter-Oct. 4, 2019
- W16581.pdf

Example of standard core analysis including core-plug porosity, permeability, grain density, oil and water saturation data. This is the most common core data.



SUMMARY OF ROUTINE CORE ANALYSES RESULTS

Vacuum Oven Dried at 180° F Net Confining Stress: as noted

Whiting Oil and Gas Corporation
Curl 23-14 Well

McKenzie County, North Dakota
File: DN-39404

Core Number	Sample Number	Sample Depth, feet	Permeability, millidarcys		Porosity, percent		Grain Density, gm/cc	Fluid Saturations, percent		
			to Air	Klinkenberg	Ambient	NCS		Water	Oil	Total
Tyler Shale Formation NCS = 2600 psi										
1	1-10(f)	8194.40	+		1.2		2.84			*
1	1-11	8195.50	<0.0001		0.8	0.8	2.85			*
1	1-14	8198.00	<0.0001		2.1	2.1	2.87			*
1	1-22(F)	8206.65	+		7.0		2.79	83.1	12.2	95.3
1	1-46	8230.40	<0.0001		1.6	1.6	2.83			*
1	1-56(F)	8240.50	+		10.9		2.72			**
1	1-58	8242.00	0.035	0.015	2.3	2.3	2.78			*
1	1-59(F)	8243.40	+		8.9		2.71			**
1	1-60(F)	8244.65	+		9.4		2.72			**
1	1-63(F)	8247.70	+		3.0		2.85			**
1	1-64(F)	8248.75	+		7.8		2.73			**
1	1-73	8257.40	<0.0001		1.6	1.6	2.77			*
1	1-73A	8257.60	<0.0001		2.7	2.7	2.85	39.7	31.9	71.6
1	1-78(f)	8262.50	+		8.2	8.2	2.84			**
1	1-79(F)	8263.50	+		7.4		2.77			**
1	1-80(f)	8264.50	+		9.2	9.2	2.78			**
1	1-89(F)	8273.40	+		8.2	8.2	2.77			**
Average values:			0.035	0.015	5.4	4.1	2.79	61.4	22.0	83.4
Three Forks Formation NCS = 2400 psi										
2	2-22	11054.00	<0.0001		3.4	3.4	2.86	52.2	17.5	69.7
2	2-22A	11054.50	<0.0001		2.9	2.9	2.78	74.0	13.0	86.9
2	2-23	11055.20	<0.0001		5.1	5.1	2.74	53.1	26.9	80.0
2	2-23A	11055.50	0.0027	0.0009	3.1	3.1	2.84	9.8	61.2	70.9
2	2-24	11056.00	<0.0000		1.6	1.6	2.74			*
2	2-24A	11056.50	<0.0001		2.3	2.3	2.73	18.6	39.2	57.7
2	2-25	11057.30	0.052	0.029	8.9	8.9	2.80	64.7	31.8	96.4
2	2-25A(f)	11057.65	+		6.6	6.6	2.81	51.0	24.7	75.6
2	2-26	11058.10	0.270	0.136	9.0	9.0	2.80	74.2	15.8	90.0
2	2-26A(f)	11058.50	+		7.6	7.6	2.81	65.0	18.5	83.5
2	2-27(F)	11059.15	+		9.0		2.81	58.8	21.8	80.6
2	2-27A	11059.50	0.034	0.016	6.4	6.4	2.80	64.2	21.3	85.5

Table of Contents

- Letter 4/24/20 (BH)
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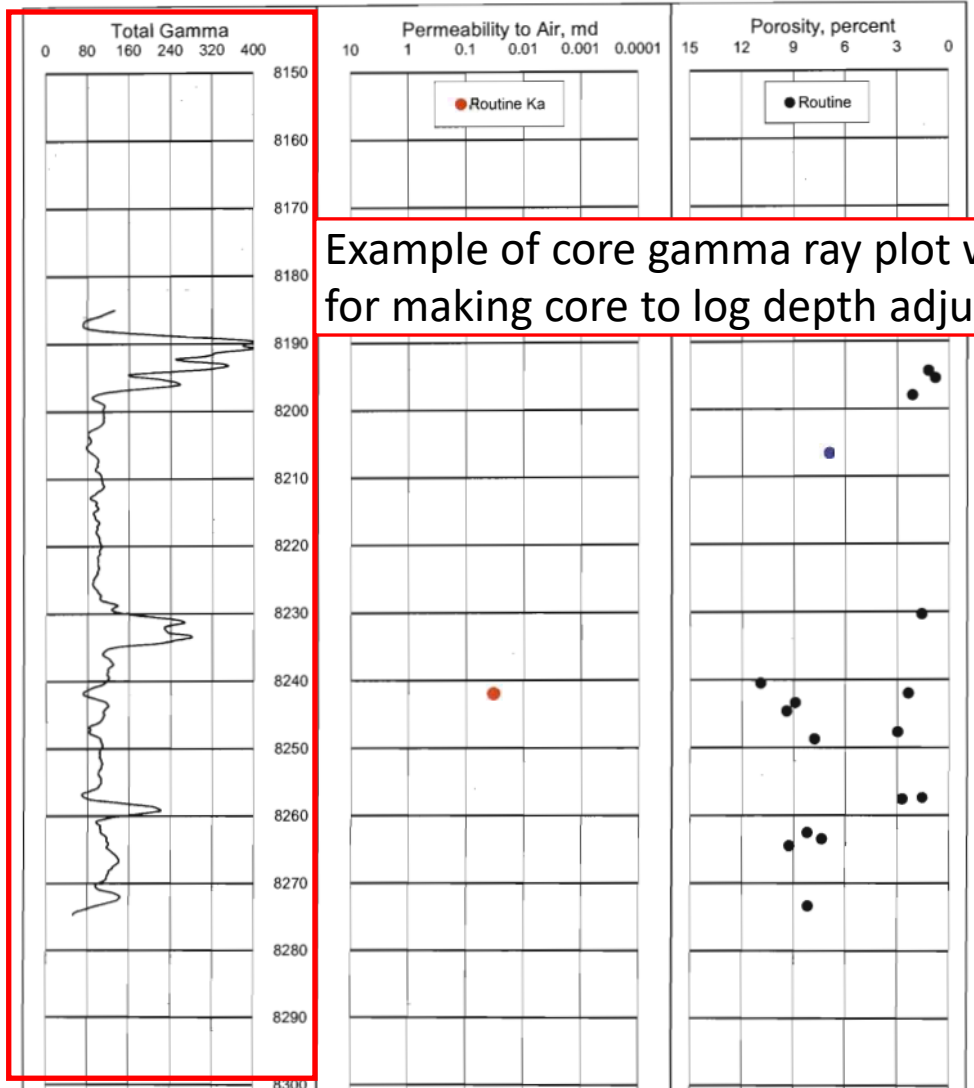
CORE GAMMA, PERMEABILITY, AND POROSITY PROFILE PLOT

VERTICAL SCALE 5 inch:100 feet

Whiting Oil and Gas Corporation
Curl 23-14 Well
Tyler Shale

McKenzie County, North Dakota
File: DN-39404

Core: 1



Example of core gamma ray plot which is useful for making core to log depth adjustments.

Table of Contents

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Porosity at NCS, percent

Porosity at NCS, percent

Final Core Data

depth	smoothed	Core 1	Plug Depth	Routine Ka	Routine
8185.00	132.91		8194.40		1.2
8185.32	120.34		8195.50		0.8
8185.63	111.17		8198.00		2.1
8185.95	102.35		8206.65		7.0
8186.27	86.40		8230.40		1.6
8186.59	75.22		8240.50		10.9
8186.90	72.68		8242.00	0.035	2.3
8187.22	71.53		8243.40		8.9
8187.54	73.52		8244.65		9.4
8187.86	89.06		8247.70		3.0
8188.17	123.44		8248.75		7.8
8188.49	178.07		8257.40		1.6
8188.81	240.32		8257.60		2.7
8189.13	306.13		8262.50		8.2
8189.44	374.54		8263.50		7.4
8189.76	405.61		8264.50		9.2
8190.08	385.72		8273.40		8.2
8190.39	380.10				
8190.71	404.82		11054.00		3.4
8191.03	367.96		11054.50		2.9
8191.35	327.95		11055.20		5.1
8191.66	318.94		11055.50	0.0027	3.1
8191.98	292.35		11056.00		1.6
8192.30	249.75		11056.50		2.3
8192.62	276.64		11057.30	0.0522	8.9
8192.93	333.51		11057.65		6.6
8193.25	351.58		11058.10	0.2697	9.0
8193.57	334.29		11058.50		7.6
8193.88	294.17		11059.15		9.0
8194.20	227.75		11059.50	0.0345	6.4
8194.52	159.34		11060.00		7.1
8194.84	166.59		11060.60		7.6
8195.15	208.59		11061.00		7.8
8195.47	236.21		11061.50		8.2
8195.79	252.95		11062.00	0.0029	7.4
8196.11	257.60		11062.60	0.017	6.4

Example of core gamma data.



- Related Links
- Premium Services
- Code Definitions
- Digital & Image Logs
- Map This Well
- Get Incident History
- Get Well File

The Premium Services page also links to the ND Oil and Gas Division Map Viewer. By selecting "Map This Well," the location of the selected well will plot automatically on the GIS map viewer and show the location of the cored well.



This includes wells shown in the GIS Map Server. Well names, and Pool information. Check this alert frequently for info@nd.gov.

Well File Last Modified:
1/31/2022 9:38:00 AM

Or Enter API Number:

[Get Scout Ticket Data](#)

NDIC File No: **16581** API No: **33-053-02794-00-00** County: **MCKENZIE** CTB No: **116581**
 Well Type: **SWD** Well Status: **A** Status Date: **3/15/2020** Wellbore type: **VERTICAL**
 Location: **NESW 14-149-100** Footages: **2515 FSL 1450 FWL** Latitude: **47.724997** Longitude: **-103.448824**

Current Operator: **Tallgrass Water North Dakota, LLC**
 Original Operator: **WHITING OIL AND GAS CORPORATION**
 Current Well Name: **CURL 23-14**
 Original Well Name: **CURL 23-14**
 Elevation(s): **2255 KB 2225 GL** Total Depth: **14147** Field: **ELLSWORTH**
 Spud Date(s): **4/15/2008**

Digital or Image Log(s) available: [AC-AIG-CND.las](#) 6.3MB, [AC](#) 11MB, [AIG-CND](#) 13.1MB, [AIG-CND1.las](#) 229KB, [AIG-CND2.las](#) 334KB, [AIG-CND3.las](#) 206KB, [AIG-CND4.las](#) 288KB, [AIG-CND5.las](#) 241KB, [AIG-CND6.las](#) 358KB, [AIG](#) 13.8MB, [CAL](#) 18.6MB, [CBL1.las](#) 5.7MB, [CBL1](#) 8.4MB, [CBL2.las](#) 1.3MB, [CBL2](#) 2.6MB, [CND](#) 12MB, [DTSM1](#) 11.5MB, [DTSM2](#) 446KB, [DTSM3](#) 463KB, [FMT](#) 7.1MB, [SPL.las](#) 2.9MB, [SPL](#) 10.5MB

Formation Tops
K-P 1922 K-GH 4733 K-M 5163 K-N 5307 K-IK 5552 J-S 5977
J-R 6481 T-S 7068 PM-MIK 7529 PM-OP 7560 PM-EBA 7830 PN-T 8079
M-EBS 8291 M-KL 8620 M-MD 8769 M-MDR 9350 M-MDLS 9425 M-MDFA 9630
M-MDLP 10140 MD-B 10969 D-TF 11037 D-BB 11259 D-DP 11350 D-SR 11773
D-DB 12036 D-PE 12129 D-W 12316 S-I 12581 S-CL 12952 O-G 13566
O-ST 13650 O-RR 13719

Casing String(s): **9.625" 2004' 5.5" 14145'**

Completion Data
 Pool: **RED RIVER** Perfs: **13914-13943 G** Comp Dt: **10/15/2008** Status: **PNA** Status Dt: **11/18/2014** Spacing: **W2**
 Pool: **DAKOTA** Perfs: **5666-5900** Comp Dt: **11/19/2014** Status: **SWD** Status Dt: **11/19/2014**

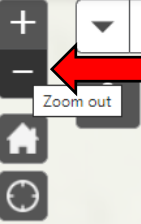
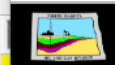
Cumulative Production Data [Get Production History](#)
 Pool: **RED RIVER** Cum Oil: **41032** Cum MCF Gas: **797662** Cum Water: **15821** [Interactive Performance Curve] [\[PDF Curve\]](#)

Cumulative Injection Data [Get Injection History](#)

UIC No: **W0426S0906C** Pool: **DAKOTA** Cum Salt Water Disposed: **4658889**

Production Test Data
 IP Test Date: **10/19/2008** Pool: **RED RIVER** IP Oil: **108** IP MCF: **2248** IP Water: **36**

Cores and Samples
[Core Photo Viewer](#) [Core Photo/Thin Section Download](#)



The initial view of the well location will be relatively zoomed in (note scale of 60 ft. in bottom left corner). Click the zoom out button for a more “zoomed back” view of the well location.

CURL 23-14

[Basic Subscribers - View Well in Scout Ticket](#)
[Premium Subscribers - View Well in Scout Ticket](#)

Fileno: 16581
 APL_NO: 33-053-02794-00-00
 Operator: Tallgrass Water North Dakota, LLC
 Well Name: CURL 23-14
 TD: 14147
 SPUD Date: 4/15/2008, 12:00 AM
 Field Name: ELLSWORTH
 QQ: NESW
 Section: 14
 Township: 149
 Range: 100
 Feet_NS: 2515
 FNSL: S
[Zoom to](#)

Map Layers

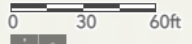
Layer List

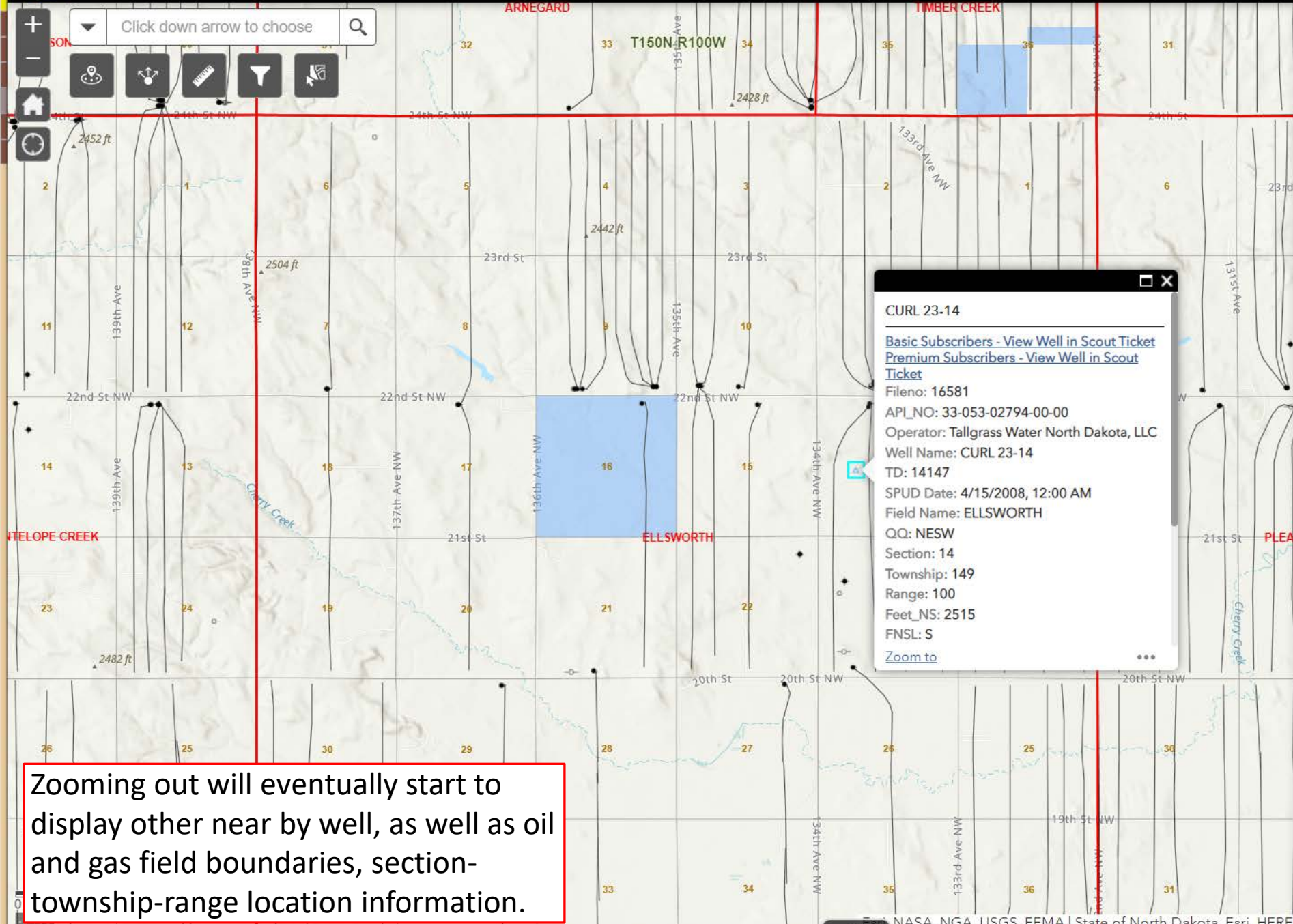
- Wells
 - A, AGD
 - A, AI
 - A, DF
 - A, DFP
 - A, GASC
 - A, GASD
 - A, GASN
 - A, GI
 - A, INJP
 - A, OG
 - A, ST
 - A, SWD
 - A, WI
 - A, WS
 - A, CO2I
 - A, SFI

Bakken Drilling and Spacing Units (click to hide)

Layers

- 160 Bakken DS
- 320 Bakken DS
- 480 Bakken DS
- 540 Bakken DS
- 640 Bakken DS
- 720 Bakken DS
- 800 Bakken DS
- 880 Bakken DS





Map Layers

Layer List

- Wells
 - A, AGD
 - A, AI
 - A, DF
 - A, DFP
 - A, GASC
 - A, GASD
 - A, GASN
 - A, GI
 - A, INJP
 - A, OG
 - A, ST
 - A, SWD
 - A, WI
 - A, WS
 - A, CO2I
 - A, SFI

Bakken Drilling and Spacing Units (click to hide)

Layers

- 160 Bakken DS
- 320 Bakken DS
- 480 Bakken DS
- 540 Bakken DS
- 640 Bakken DS
- 720 Bakken DS
- 800 Bakken DS
- 880 Bakken DS

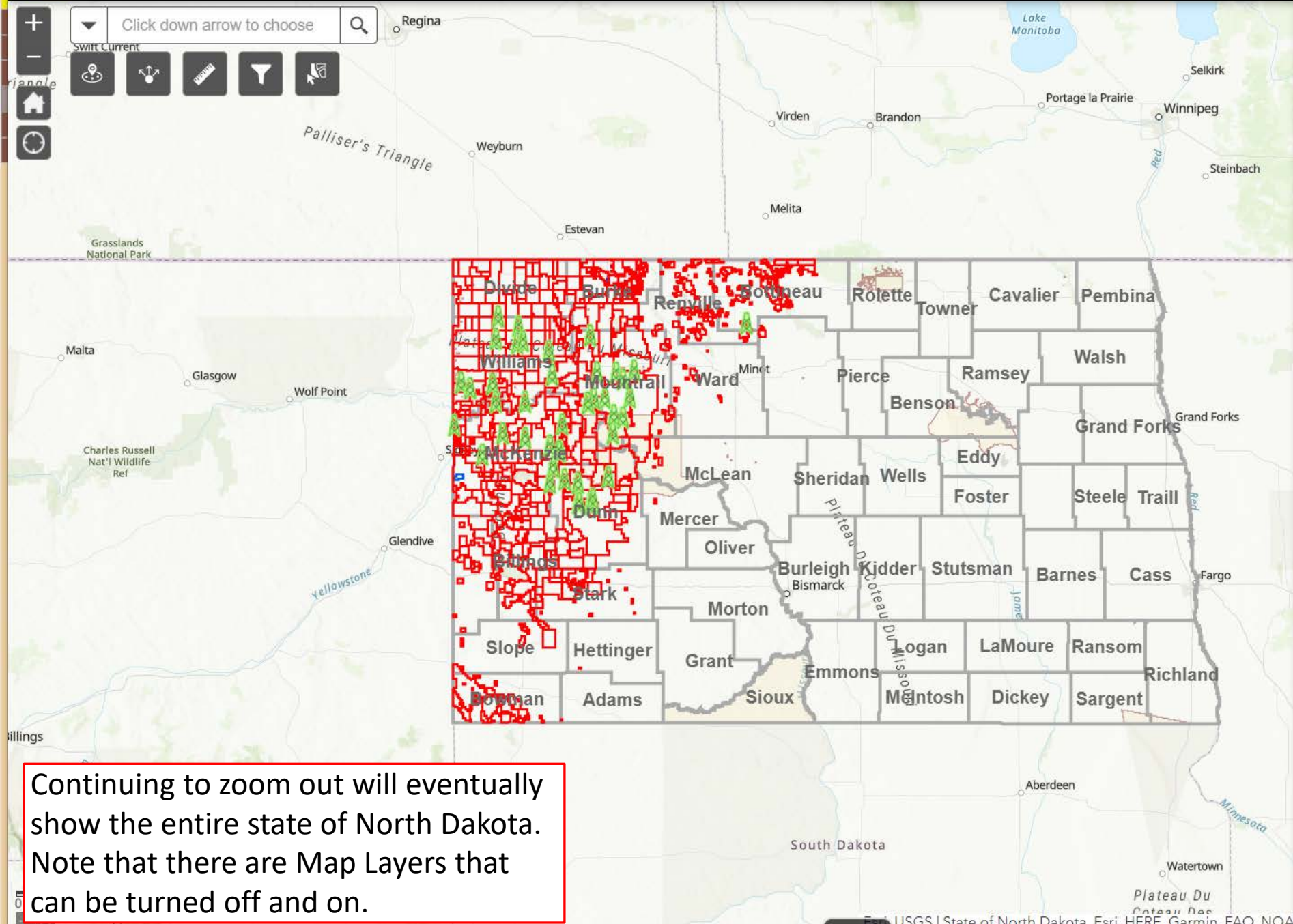
CURL 23-14

[Basic Subscribers - View Well in Scout Ticket](#)
[Premium Subscribers - View Well in Scout Ticket](#)

Fileno: 16581
 APL_NO: 33-053-02794-00-00
 Operator: Tallgrass Water North Dakota, LLC
 Well Name: CURL 23-14
 TD: 14147
 SPUD Date: 4/15/2008, 12:00 AM
 Field Name: ELLSWORTH
 QQ: NESW
 Section: 14
 Township: 149
 Range: 100
 Feet_NS: 2515
 FNSL: S

[Zoom to](#)

Zooming out will eventually start to display other near by well, as well as oil and gas field boundaries, section-township-range location information.



Map Layers

Layer List

- Wells
 - A, AGD
 - A, AI
 - A, DF
 - A, DFP
 - A, GASC
 - A, GASD
 - A, GASN
 - A, GI
 - A, INJP
 - A, OG
 - A, ST
 - A, SWD
 - A, WI
 - A, WS
 - A, CO2I
 - A, SFI

Bakken Drilling and Spacing Units (click to hide)

Layers

- 160 Bakken DS
- 320 Bakken DS
- 480 Bakken DS
- 540 Bakken DS
- 640 Bakken DS
- 720 Bakken DS
- 800 Bakken DS
- 880 Bakken DS

Continuing to zoom out will eventually show the entire state of North Dakota. Note that there are Map Layers that can be turned off and on.

- NDGS LINKS
- Search**
 - Bakken Three Forks
 - Clay Maps
 - Coal Maps
 - Core Analysis**
 - Core Library
 - Directory
 - Fossil Digs
 - Geo News Newsletter
 - Geothermal
 - High-Level Radioactive Waste Advisory Council
 - Inyan Kara (Disposal) Maps
 - Landslide Maps
 - LiDAR Maps
 - Minerals
 - Paleontology
 - Petroleum Information
 - Publications
 - Rules and Regulations
 - Sand Reports
 - Shallow Gas
 - Stratigraphic Column
 - Surface Geology
 - Uranium
 - Volcanic Ash
 - Williston Basin Petroleum Conference
- OTHER LINKS



North Dakota Geological Survey

Lynn D. Helms, PhD., Director Ed C. Murphy, State Geologist

The North Dakota Geological Survey was created by an act of the North Dakota Legislature in 1895. After more than 120 years, the Survey still serves as the primary source of geological information in the state. Its mission over the years has grown and is now three-fold:

- Investigate the geology of North Dakota
- Administer regulatory programs and act in an advisory capacity to other state agencies
- Provide public service to the people of North Dakota

The Geological Survey publishes maps and reports on the mineralogical, paleontological, and geochemical resources of North Dakota, including oil and gas, coal, uranium, clay, sand and gravel, volcanic ash, potash and other salts, etc. In addition to the mapping of subsurface resources, the Survey is actively mapping the surface geology throughout the state with an emphasis on urban areas and the identification of geohazards such as landslides. Survey publications support the regulatory programs of the Industrial Commission, as well as other state and federal

The core analysis data available in the Scout Ticket well files is generally data that was collected by the original operator before the core was submitted to the state of North Dakota. For data generated on cores (and drill cuttings) after the core was submitted to the state of North Dakota, generally data not collected from the original operator, such core data can be accessed through the North Dakota Geological Survey webpage.

NDGS LINKS

Search

- Bakken Three Forks
- Clay Maps
- Coal Maps
- Core Analysis
- Core Library
- Directory
- Fossil Digs
- Geo News Newsletter
- Geothermal
- High-Level Radioactive Waste Advisory Council
- Inyan Kara (Disposal) Maps
- Landslide Maps
- LiDAR Maps
- Minerals
- Paleontology
- Petroleum Information
- Publications
- Rules and Regulations
- Sand Reports
- Shallow Gas
- Stratigraphic Column
- Surface Geology
- Uranium
- Volcanic Ash
- Williston Basin Petroleum Conference

OTHER LINKS

- ND State Land Department
- ND State Water Commission
- USGS
- Petroleum Council
- Interesting Links



North Dakota Geological Survey


Core Analysis

- [Dynamic Geomechanical Analysis](#)
- [Mercury Injection Capillary Pressure Analysis](#)
- [Mohrcoulomb Geomechanical Analysis](#)
- [Nuclear Magnetic Resonance](#)
- [Static Geomechanical Analysis](#)
- [Total Organic Carbon](#)
- [Ultrasonic](#)
- [Visual Kerogen](#)
- [Vitrinite Reflectance](#)
- [X-ray Diffraction](#)
- [X-ray Fluorescence](#)



Most core analysis collected post core submission have been compiled into excel spreadsheets.

Downloads

 total_organic_carbon_NDGS (3).xlsx
[Open file](#)

[Show in folder](#)

[See more](#)

NDGS LINKS

Search

- [Bakken Three Forks](#)
- [Clay Maps](#)
- [Coal Maps](#)
- [Core Analysis](#)
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total_organic_carbon_NDGS (3)	2/22/2023 10:06 AM	Microsoft Excel W...	1,210 KB
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27284-DTSM2 (2)	2/21/2023 6:38 PM	TIF File	5,708 KB
19926-CND	2/21/2023 10:23 AM	TIF File	1,095 KB
19926-DTSM1 (4)	2/21/2023 10:22 AM	TIF File	827 KB
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Core_Proposal_Form (10)	2/14/2023 1:22 PM	Microsoft Word D...	39 KB
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▼ Earlier this month (5)			
01 - Complete Package for Key Wells	2/10/2023 1:57 PM	Compressed (zipp...	1 KB
Core_Proposal_Form (9)	2/7/2023 9:48 AM	Microsoft Word D...	39 KB
16800-06275-01 (1)	2/7/2023 11:54 AM	DOC FILE	0.144 KB

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C1786 : X ✓ fx JACOB HUBER #1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	uvi	ndic	well_name	core_type	formation	top_depth_ft	adj_top_depth_ft	bottom_depth_ft	adj_bottom_depth_ft	source	TOC_per_w	CC_per_w	Wt_g	S1_mg_HC-g_R	S2_mg_HC-g_R	S3_mg_HC
1878	33105005910000	2828	L. J. HOVDE #1			11142.00	11143.50			Hui Jin	1.36			0.82	0.44	
1879	33105005910000	2828	L. J. HOVDE #1			11141.00	11142.50			Hui Jin	11.63			4.76	7.34	
1880	33105005910000	2828	L. J. HOVDE #1			11140.10	11141.60			Hui Jin	2.85			1.49	2.15	
1881	33105005910000	2828	L. J. HOVDE #1			11139.10	11140.60			Hui Jin	10.19			5.25	9.49	
1882	33105005910000	2828	L. J. HOVDE #1			11138.10	11139.60			Hui Jin	10.56			5.17	10.72	
1883	33105005910000	2828	L. J. HOVDE #1			11137.20	11138.70			Hui Jin	11.34			5.31	10.64	
1884	33105005910000	2828	L. J. HOVDE #1			11133.00	11134.50			Hui Jin	11.14			4.40	11.08	
1885	33105005910000	2828	L. J. HOVDE #1			11134.00	11135.50			Hui Jin	10.89			4.95	10.80	
1886	33105005910000	2828	L. J. HOVDE #1			11135.10	11136.60			Hui Jin	8.61			4.88	9.04	
1887	33105005910000	2828	L. J. HOVDE #1			11136.30	11137.80			Hui Jin	10.55			4.84	10.92	
1888	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9651.00				Weatherford	0.10					
1889	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9572.00				Weatherford	0.08					
1890	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9439.00				Weatherford	0.11					
1891	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9607.00				Weatherford	0.04					
1892	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9369.00				Weatherford	0.04					
1893	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9401.00				Weatherford	0.06					
1894	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9478.00				Weatherford	0.10					
1895	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9596.00				Weatherford	0.25					
1896	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9435.00				Weatherford	0.42					
1897	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9618.00				Weatherford	0.36					
1898	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9566.00				Weatherford	0.36					
1899	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9533.00				Weatherford	0.11					
1900	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9378.00				Weatherford	0.33					
1901	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9538.00				Weatherford	0.25					
1902	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9611.00				Weatherford	0.19					
1903	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9523.00				Weatherford	0.18					
1904	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9395.00				Weatherford	0.12					
1905	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9531.00				Weatherford	0.15					
1906	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9569.00				Weatherford	0.15					
1907	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9506.00				Weatherford	0.14					
1908	33105005990000	2887	ISABELE LEGGE #1	Core Chip	Duperow	9579.00				Weatherford	0.16					
1909	33053004920000	2950	ANGUS KENNEDY #2	Rock Cuttings	Bakken Upper	10588.00		10608.00		USGS	11.92		30.20	3.64	7.64	
1910	33053004920000	2950	ANGUS KENNEDY #2	Rock Cuttings	Bakken Lower	10648.00		10674.00		USGS	15.29		30.40	6.44	13.15	
1911	33053004930000	2967	A. S. WISNESS #2			10285.00				Price	9.97			60.40	110.00	
1912	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9416.00	9419.00	9416.00	9419.00	USGS	0.23			0.20	0.08	
1913	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken Upper	9409.00	9412.00	9413.00	9416.00	USGS	13.88		7.90	0.50	23.79	
1914	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9414.00	9417.00	9414.00	9417.00	USGS	0.42			0.12	0.09	
1915	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9414.50	9417.50	9414.50	9417.50	USGS	0.50			1.15	0.29	
1916	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9415.50	9418.50	9415.50	9418.50	USGS	0.30			0.18	0.16	
1917	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9416.50	9419.50	9416.50	9419.50	USGS	0.10			0.12	0.09	
1918	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9417.00	9420.00	9417.00	9420.00	USGS	0.33			0.50	0.33	
1919	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken Upper	9409.00	9412.00	8667.00	8670.00	Price	13.41			36.50	261.00	
1920	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9429.50	9432.50	9429.50	9432.50	USGS	0.38			0.27	0.22	
1921	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9425.50	9428.50	9425.50	9428.50	USGS	0.31			0.30	0.19	
1922	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9426.00	9429.00	9426.00	9429.00	USGS	0.45			0.45	0.17	
1923	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9426.50	9429.50	9426.50	9429.50	USGS	0.19			0.17	0.12	
1924	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9427.00	9430.00	9427.00	9430.00	USGS	0.22			0.25	0.13	
1925	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9427.50	9430.50	9427.50	9430.50	USGS	0.04			0.04	0.10	
1926	33105006060000	3007	HAMLET U. #2	Rock Core	Bakken siltstone	9428.00	9431.00	9428.00	9431.00	USGS	0.06			0.20	0.09	