

# **NorthSTAR User Manual**

# **Completion Report**

Sample data in this manual represents a typical horizontal well as entered into NorthSTAR. Sample well is NDIC File No. 35640 Completed on December 10, 2019.

## **Accessing the Completion Report**

You can access a completion report if you have the below permissions:

#### **Security Permissions**

Access to submit a completion report is only available to those with the below security permissions.

- NorthSTAR Admin Ability to Create, Read, Update, and Delete
- Well Manager Ability to Create, Read, Update, and Delete
- Well Submitter Ability to Create, Read, Update
- Well Read Only Ability to Read

The NorthSTAR Admin is the only person who can view or edit security permissions. To view Security Permissions:

- Click on My Organization
- Click on Associated People
- Click on the hyperlinked name of the person you would like to review
- Click on Summary
- Click on Security
- Check permissions that apply and click Save

TIP: Users with security permissions for a specific NorthSTAR form will be able to - at a minimum - read all forms in progress or submitted of that specific form type if they are affiliated with the Organization the form is being submitted under.

#### **Open a Completion Report Form:**

To access the completion form for submission you can:

- 1. Select "Forms"
- 2. Select "Online Forms"
- 3. Select "Well Completion or Plugging Report"

#### OR

- 1. Enter the NDIC File Number in the search field located in the top right corner of the NorthSTAR navigation pane.
- 2. Click on the file number to open the Well Details page.
- 3. Select "Actions"
- 4. Select "Submit Completion or Plugging Report"

L Hello Nathaniel Erbele, North Dakota Oil & Gas Di

## **Step 1: Form Information**

#### **Fields and Functions:**

Form Name: Will default to the form you have selected in NorthSTAR.

Organization: Select the name of the organization the sundry applies to if it does not default to the correct organization.

Form Type: When filling out a completion report choose "Completion" or "Preliminary Completion"

#### **Type of Completion:**

**API:** Select the API of the well you are filing the completion report for if it does not default to the correct API.

Well Information: Complete in the format listed. This box is used to indicate that a Completion (or Plugging Report) is being filed.

Form Navigation	Form Information	[Hide Form Navigati
1. Form Information	Please enter information below. Form Name Well Completion or Plugging Report Organization WPX ENERGY WILLISTON, LLC Form Type * Completion API *	Indicates Required Field      Type of Completion *       New Well - Horizontal
	Enter the well information in the following form and Number – Type of Well (Example: 156 – 09 149 - 093 - 09 - ST. ANTHONY 9- <u>16HD</u> - Oll & O	mat: Township – Range – Section – Well Name 🚯 97 – 02 – Smith 1– Oil & Gas). * Gas

## Well Completion or Plugging Report

## **Step 2: Operator Information**

The Operator Information page is used to designate contacts for the filing.

By default, the person who is logged in and summiting the completion report will be displayed in the "Contacts" grid. By clicking the "Actions" button and selecting "Add Contact", additional contacts can be associated with the completion report. If the individual is already in NorthSTAR, check the box next to the statement "Is this contact already in NorthSTAR?" and complete the "Contact Role" and "Find Person" fields. Then, click "Save".

*Review the operator information displayed at the top of the form to ensure the correct organization has been selected.* 

Operator Information	nc			I	Hide Form Naviga
<b>API:</b> 3302503610	File No.: 35640	Field: N/A	Type of Well: Oil & Gas	Type of Complet	Work: ion
Please confirm the contact(s) with the as a contact.	e correct Organiza eir correct role. By	tion has been sel default, the form	ected, and designate submitter is selected	* Indica	tes Required Fi
Organization N WPX ENERGY	lame WILLISTON, LLC	<mark>(</mark> 3953)	<b>Type of Organizati</b> LLC	on	
Organization F 3500 One Willia TULSA, OK 74	Primary Address ams Center- MD38 172	\$			
Organization P (539) 573-8958	Primary Phone Nu	ımber	Ext		
Contacts					
			T A	dvanced Filtering	Actions -
Name †	Phone N	umber Ema	il Rol	e	Actions

## **Step 3: Well Information**

The Well Information step is used to give more information about the well completed.

- Verify the information appears correct.
- Add the information in the boxes and the bottom of the form then click "Save" to continue.

AP:       File No.:       Field:       Type of Well:       Type of Work:         3302503610       35640       N/A       Oll & Gas       Completion         3302503610       35640       N/A       Oll & Gas       Completion         Please enter information on the proposed Well operation below. Grey       * Indicates Required Field         highlighted fields are informational only.       Pool         Unit       Field       Pool         Associated Bond       Associated Inspector         Adding Completed Status       Associated Inspector         Associated Location       Surface Owner         Vial       Footages From Nearest Section Line         Footages 1: 439       Feet From       N         Footage 2: 2137       Feet From       Line         Gdr-Or       Gdr-Or       Outline         Vol do - or       Sociated of Well Head       (NA 65):         Trates 2: 2137       Feet From       Line         Gdr-Or       Or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn       Listuide of Well Head       (NA 65):         (NA 53):       47.4524176       Congliude of Well Head       (NA 65):       200	AP:       Fiel No.:       Field::       Type of Weil::       Type of Work::         3302503610       35640       N/A       Oil & Gas       Completion         Please enter information on the proposed Weil operation below. Grey highlighted fields are informational only.       * Indicates Required Field highlighted fields are informational only.       * Indicates Required Field highlighted fields are informational only.         Unit       Field       Pool         Associated Bond       Associated Inspector       BAKKEN         V350       Allen Christensen       Comfidential Status       Weil Name         No       Strace Owner       N/A       Dispectified Biold       Footage 1: 439         Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       N       Line         Ort-Ort       Or       Complitude of Weil Head       County::         NE NW       09       149 N       93 W       Dunn         Latitude of Weil Head       Cooglitude of Weil Head       Cooglitude of Weil Head       Cooglitude of Weil Head         (MAD B3):       07.046 Pod Elevation       Corter       Orteo       21227         Operator Reported Weil Status*       Specifystart Date*       Drilier Total Depth         Producing       Specifyst	II Information			[Hide Form Navigation]
Art:       Frie Ro.:       Fried:       type of work:       type of work:         3302203010       35540       N/A       Oif & Gas       Completion         Please enter information on the proposed Well operation below. Grey highlighted fields are informational only.       * Indicates Required Field         Unit       Field       Pool         Associated Bond       Associated Inspector         W300       Allen Christensen         Confidential Status       Well Name         No       ST. ANTHONY 9-16HD         Wellhead Location       Strace Owner         N/A       Of a Sig         Footage From Nearest Section Line       Footage 1: 439         Footage 1: 439       Feet From       N         Footage 2: 2137       Feet From       V         VE NV       09       149 N       93 W       Dunn         Latitude of Well Head       Longitude of Well Head       (NAD Sa):       -102: 69108301         Ground Elevation       Graded Pad Elevation       Flowing       21227         Disposition of Gas       Spud/Start Date*       Operator Reported Producing         Not Connected        S20/5       Producing Theory Bub       -An of wells hall be considered completed when the first of is producing interoval after casing has been run. <th>AFr.       File NO       File C       Type Of Well.       Type Of Work.         3302503610       35640       N/A       Oil &amp; Gas       Completion         Please enter information on the proposed Well operation below. Grey hubble filed fields are informational only.       * Indicates Required Field Field         Unit       Field       Pool       * Indicates Required Field         Associated Bond       Associated Inspector       *         W350       Alien Christensen       *         Confidential Status       Well Name       *         No       ST. ANTHONY 9-16HD       *         Wellhead Location       Surface Owner       *         N/A       Footages From Nearest Section Line       *         Footage 1: 439       Feet From       *         Pool 2: 2137       Feet From       *         Unit Contract 0: Section:       Township:       Range:       County:         NE       NW       09       149 N       93 W       Dunn         Latitude of Well Head       Longitude of Well Head       County:       *       1227         2006       Operator Reported Well Status*       Spud/Start Date*       Driller Total Depth         Producing       Stack 79       Elevation       Creater Provio</th> <th>ADI: File No.</th> <th>Fields</th> <th>Ture of Mally</th> <th>Tune of Monto</th>	AFr.       File NO       File C       Type Of Well.       Type Of Work.         3302503610       35640       N/A       Oil & Gas       Completion         Please enter information on the proposed Well operation below. Grey hubble filed fields are informational only.       * Indicates Required Field Field         Unit       Field       Pool       * Indicates Required Field         Associated Bond       Associated Inspector       *         W350       Alien Christensen       *         Confidential Status       Well Name       *         No       ST. ANTHONY 9-16HD       *         Wellhead Location       Surface Owner       *         N/A       Footages From Nearest Section Line       *         Footage 1: 439       Feet From       *         Pool 2: 2137       Feet From       *         Unit Contract 0: Section:       Township:       Range:       County:         NE       NW       09       149 N       93 W       Dunn         Latitude of Well Head       Longitude of Well Head       County:       *       1227         2006       Operator Reported Well Status*       Spud/Start Date*       Driller Total Depth         Producing       Stack 79       Elevation       Creater Provio	ADI: File No.	Fields	Ture of Mally	Tune of Monto
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Wellhead Location         Surface Owner         N/A         Footages From Nearest Section Line         Footage 1: 439       Feet From         Footage 2: 2137       Feet From         V       Line         Out-Otr       Or Line         Out-Otr       Out-Otr         Or Lot:       Section:       Township:         Range:       County:         NE NW       09       149 N         Latitude of Well Head       Longitude of Well Head         (NAD 83):       -102.59108301         Ground Elevation       Graded Pad Elevation         (Ft above SL):       2304         2304       2305         Operator Reported Well Status*       Spud/Start Date*       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       (Ft above SL)*       Operator Reported Producing         Not Connected       2329       Flowing         - An oil well shall be considered completed when the first oil is capable of producing gas through wellhead equipment into tanks from the utimate producing gas through wellhead equipment into tanks from the utimate producing gas through wellhead equipment into tanks from the utimate producing gas through wellhead equipment into tanks from the utimate producing gas through wellexer completed when the rest is capable o	No       ST.ANTHONY 9-16HD         Wellhead Location       Surface Owner         N/A       Footages From Nearest Section Line         Footage 1: 439       Feet From       N         Footage 2: 2137       Feet From       W         Qtr-Otr       Wellhead       Line         Qtr-Otr       Or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Well Head       Longitude of Well Head       (NAD 83):       -102.69108301         Ground Elevation       Graded Pad Elevation       (Prabove 5L):       2304         2304       2306       Departor Reported Producing         Mc Connected       Spud/Start Date       Driller Total Depth         Producing       \$1200       Operator Reported Producing         Mc Connected       Start Date       Disposition of Gas         It 2/10/19       It above SL)*       Operator Reported Producing         12/10/19       It above SL)*       Operator Reported Producing         Producing are report the packer in the utimate produced in through wellhead equipment into tanks from the utimate producing interval after casing has been run.       - A gas well shall be considered completed when the finst oi is producing interval ster casing has been run.	Confidential Status		Well Name	
Wellhead Location         Surface Owner         N/A         Footages From Nearest Section Line         Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Gtr-Otr       Or Lot:       Section:       Township:       Range:       County:         NK       09       149 N       93 W       Dunn         Latitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       -102:090801         Ground Elevation (Ft above SL): @       Graded Pad Elevation (Ft above SL):       Driller Total Depth         2304       5/26/19       21227         Disposition of Gas Not Connected •       Spud/Start Date *       Operator Reported Producing (Ft above SL);         2329       Flowing       -         12/10/19       •       - An oil well shall be considered completed when the first oi is producing interval after casing has been ru         - A ro il well shall be considered completed when the well is capable of producing gas through wellhead equipment from the utiltmate producing gas through wellhead equipment from the well is capable of producing yone after casing has been ru         - For EOR or SWD wells, please report the date the well is capable of producing gas through wellhead equipment from the well is capable of producing gas through wellhead equipment fino the well is capable of producing yone after	Wellhead Location         Surface Owner         N/A         Footages From Nearest Section Line         Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Otr-Otr       0       Interview       County:         Or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Weil Head (NAD 83):       Longitude of Weil Head (NAD 83):       -102.69108301         Ground Elevation (Ft above SL): @       Craded Pad Elevation (Ft above SL): @       Driller Total Depth         2304       2305       Operator Reported Weil Status *       Spud/start Date*       Driller Total Depth         Producing        5/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         12/10/19        -A nol Weil shall be considered completed when the first oil is producing intervial after casing has been run.       -A gas well shall be considered completed when the well is capable or injection through tubing and packer into the apable or injection through tubing and packer into the permited injection zone .Aso, please report the date the well is capable or injection through tubing and packer into the permited tubing size, depth, and type. The p	No		SI. ANTHONY	9-16HD
Surface Owner         N/A         Footage From Nearest Section Line         Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Out-Otr       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Weil Head (NAD 83):         47.74524178       Longitude of Weil Head (NAD 83):       Congitude of Weil Head (NAD 83):       Congitude of Weil Head (NAD 83):       Operator Reported Weil Status*       Spud/Start Date*       Driller Total Depth         2304       2306       2306       Operator Reported Producing       Flowing       Interval after casing has been run.       Coperator Reported Producing (Ft above SL):       2329       Producing       - An oil weil shall be considered completed when the first oil is produced through weilhead equipment into tanks from the ultimate producing interval after casing has been run.       - Ag as well shall be considered completed when the well is capable of producing and packer into the permitted ingeton frontough tubing and packer into the permitted ingeton fronto the ultimate producing man packer into the permitted ingeton fronto the permitted ingeton into tanks from the ultimate producing man packer into the permitted ingeton into tanks from the ultimate producing man packer into the permitted ingeton inthe "Additinton" portinon of the report.	Surface Owner         NA         Footages From Nearest Section Line         Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Ort-Otr       W       Line         Ort-Otr       W       Line         Ort-Otr       Of Lot:       Section:       Township:       Range:       County:         NW       09       149 N       93 W       Dunn         Latitude of Weil Head       Longitude of Weil Head       (NAD 83):         47.74524178       -102.59108301         Oreator Reported Weil Status*       Oraded Pad Elevation         (Ft above SL):       2306         Operator Reported Weil Status*       Spud/Start Date*       Driller Total Depth         Producing       \$726/19       21227         Disposition of Gas       (Ft above SL)*       Derator Reported Producing         Iz/1019       -       An oil weil shall be considered completed when the first oil is producing interval after Casing has been run.         -       A gas well shall be considered completed when the well is capable or producing jast broah run.         -       A gas well shall be considered completed when the well is capable or injection through tubing and packer into the permitted injection zone. Also, plea	Wellhead Location			
N/A         Footage From Nearest Section Line         Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Qtr-Qtr       or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       -102.59108301         Ground Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Driller Total Depth         2304       5/26/19       21227         Deposition of Gas Not Connected ▼       Spud/Start Date*       Operator Reported Producing (Ft above SL)*         2329       Flowing       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utimate producing interval after casing has been run.         - A gas well shall be considered completed when the well is capable of producing gas through wellhead equipment not the well is capable of producing gas through wellhead equipment the the well is capable of producing and packer into the permitted ingeton zone. Also, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.	N/A         Footages From Nearest Section Line         Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Or-Otr       Or-Otr       N       Line         OrLot:       Section:       Township:       Range:       County:         NW       09       149 N       93 W       Dum         Latitude of Weil Head (NAD 83):       Longitude of Weil Head (NAD 83):       (NAD 83):       -102.59108301         Ground Elevation (Fr above SL):       Graded Pad Elevation (Fr above SL):       Orlier Total Depth         2304       Spud/Start Date*       Driller Total Depth         Producing       S/26/19       21227         Disposition of Gas       (S Elevation (Fr above SL)*       Operator Reported Producing (Fr above SL)*         12/10/19       Image: An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ullimate producing interval after casing has been run.         - Ag as well shall be considered completed when the well is capable of producing as through wellhead equipment from the ullimate producing gas after casing has been run.         - Ag as well shall be considered completed when the well is capable of producing as after casing has been run.       - Ag as well shall be considered completed when the well is capable of producing asa through wellh	Surface Owner			
Section Line         Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Ort.ot:       Section:       Township:       Range:       County:         Outor:       Section:       Township:       Range:       County:         NW       Outor:       Section (MAD 83):         Outor:       County:         Ar7.4524178       Driller Total Depth         Outor:       Spud/Start Date       Driller Total Depth         Producing        Spud/Start Date       Diller Total Depth       21227         Disposition of Gas        Spud/Start Date       Operator Reported Producing Method       Flowing       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing yeal shall be considered completed when the first oil is producing yeal shall be considered completed when the well is capable of producing yeal shall be considered completed when the well is capable of producing yeal shall be considered completed when the well is capable of producing yeas through wellhead equipment from the ultimate produ	Footages From Nearest Section Line         Protage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Ctr-Qtr       Or       Diversion of the section       County:         MNW       09       149 N       93 W       Dum         Latitude of Weil Head (NAD 83):       County:       No       Dum         Latitude of Weil Head (NAD 83):       Congitude of Weil Section       County:       County	N/A			
Footages From Nearest section time         Footage 2: 2137       Feet From W       Line         Footage 2: 2137       Feet From W       Line         Qtr-Qtr       Or Lot:       Section:       Township:       Range:       County:         Or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Well Head (MAD 83):       Longitude of Well Head (NAD 83):       -102.59108301         Ground Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Driller Total Depth         2304       Spud/Start Date*       Driller Total Depth         Producing       Spud/Start Date*       Driller Total Depth         Disposition of Gas       KE Elevation (Ft above SL)*       Operator Reported Producing Method         Not Connected       O       2329       Flowing         - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utimate producing uses afrough wellhead equipment from the utimate producing zone after casing has been run.       - Aga swell shall be considered completed when the well is capable of producing zone after casing has been run.       - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permit dupeth on the "Additional Information" portion of the report.	Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Qtr-Qtr       or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       -102.59108301         47.74524178       Graded Pad Elevation (Ft above SL):       2306         Operator Reported Well Status*       Spud/Start Date*       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       (Ft above SL)*       Qase Well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utimate producing thereval after casing has been run.         At 2329       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utimate producing gas through wellhead equipment from the utimate producing gas through wellhead equipment from the utimate producing gas through wellhead equipment from the utimate producing and packer into the permitted in geton zone. Also, please report the packer type and depth and the tubing size. depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.         Size & Type of Pump	Footages From Nearest Section	n Lino		
Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Qtr-Qtr       or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Weil Head (NAD 83):       Longitude of Weil Head (NAD 83):       Longitude of Weil Head (NAD 83):       -102.59108301         Ground Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Driller Total Depth         2304       2306       Spud/Start Date       Driller Total Depth         Producing        5/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         Not Connected        2329       Flowing         12/10/19        - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utlimate producing gas through wellhead equipment into tanks from the utlimate producing gas through wellhead equipment into tanks from the utlimate producing gas through wellhead equipment into the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth	Footage 1: 439       Feet From       N       Line         Footage 2: 2137       Feet From       W       Line         Qtr-Qtr       or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Weil Head (NAD 83):       Longitude of Weil Head (NAD 83):       -102.59108301         Ground Elevation (Ft above SL):       Oraded Pad Elevation (Ft above SL):       2306         Operator Reported Weil Status*       Spud/Start Date*       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       (Ft above SL)*       2329         Not Connected       2329       Flowing         - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utilmate producing area after casing has been run.       - A gas well shall be considered complete when the well is capable of producing gane after casing has been run.         - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted ingetion zone. Also, please report the packer yae and dubing type may be included in the "Additional Information" portion of the report.         Size & Type of Pump       Size & Type of Pump	Footages From Nearest Sectio			
Footage 2: 2137       Feet From       W       Line         Qtr-Qtr       or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       -102.59108301         Ground Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Operator Reported Well Status*       Spud/Start Date*       Driller Total Depth         Producing        5/26/19       21227         Disposition of Gas Not Connected       (KE Elevation (Ft above SL)*       Operator Reported Producing Method         12/10/19        - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utlimate producing interval after casing has been run.       - A gas well shall be considered complete when the will is capable of producing gas through wellhead equipment from the utlimate producing gas method wells, please report the date the well is capable of producing gas through wells, please report the date the well is capable of nijection through tubing and packer into the ade the well is capable of nijection through tubing and packer into the permitted injection zone. Also, please report the packer and tubing type may be included in the "Additional Information" portion of the report.	Footage 2: 2137       Feet From       W       Line         Qtr-Qtr       Or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       Congitude of Well Head (NAD 83):       Congitude of Well Head (NAD 83):       Congitude of Well Head (NAD 83):         47.74524178       County:       -102.59108301       Graded Pad Elevation (Ft above SL):       2306         2304       2306       Disposition of Gas       Spud/Start Date*       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       (Ft above SL)*       Qperator Reported Producing Method         Not Connected       2329       Flowing         12/10/19       - An oil well shall be considered completed when the first oi is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - Agas well shall be considered completed when the twell is capable of producing gas through wellhead equipment into tanks from the ultimate producing gas through wellhead equipment into tanks from the ultimate producing gas through wellhead equipment from the ultimate produ	Footage 1: 439 Feet	From N	Line	
Qtr-Qtr       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       County:         47.74524178       -102.59108301       -102.59108301         Ground Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Driller Total Depth         2304       2306       21227         Operator Reported Well Status       Spud/Start Date*       Driller Total Depth         Producing       \$/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         12/10/19       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utlimate producing interval after casing has been run.       - A gas well shall be considered completed when the well is capable of producing gas through wellhead equipment from the utlimate producing gas through wellhead equipment from the utlimate producing gas through wells, please report the date the well is capable of nijection through tubing and packer into the ade the well is capable of nijection through tubing and packer into the date the well is capable of nijection through tubing and packer into the permitted injection zone. Also, please report the packer and tubing type may be included in the "Additional Information" portion of the report.	Qtr-Qtr       Or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dum         Latitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):         47.74524178       Longitude of Well Head (NAD 83):       .102.59108301         Ground Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Driller Total Depth         2304       \$206       21227         Deprotor Reported Well Status*       Spud/Start Date*       Driller Total Depth         Producing       \$1/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         Not Connected       2329       Powing         12/10/19       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - Ag as well shall be considered complete when the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.         Size & Type of Pump	Footage 2: 2137 Feet	From W	Line	
or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dunn         Latitude of Weil Head (NAD 83):       Longitude of Weil Head (NAD 83):       Longitude of Weil Head (NAD 83):       Dunn         47.74524178       -102.59108301       -102.59108301         Ground Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Driller Total Depth         2304       2306	or Lot:       Section:       Township:       Range:       County:         NE NW       09       149 N       93 W       Dum         Latitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       Longitude of Well Head (NAD 83):       Dum         47.74524178       -102.59108301         Ground Elevation (Ft above SL):       Graded Pad Elevation (Ft above SL):       Driller Total Depth         2304       2306         Operator Reported Well Status*       Spud/Start Date*       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         12/10/19       -       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing gas through wellead equipment from the ultimate producing gas through wellead equipment from the ultimate producing gas through useling lease report the date the well is capable of producing stare casing has been run.       - For EOR or SWD wells, please report the packer type and depth and the tubing size, depth, and type. The packer type and depth and the tubing size, depth, and type. The packer type and depth and the tubing size, depth, and type. The packer type and depth and the tubing size, depth, and type. The packer type and depth and the tubing size, depth, and type. The packer type and depth and the tubing size, depth, and type. The packer type and depth and the tubing size, depth, and type. The packer and tubing type	Qtr-Qtr			
NE NW       09       149 N       93 W       Dulli         Latitude of Well Head (NAD 83): 47.74524178       Longitude of Well Head (NAD 83): -102.59108301       (NAD 83): -102.59108301         Ground Elevation (Ft above SL): •       Graded Pad Elevation (Ft above SL): 2304       Operator Reported Well Status •       Spud/Start Date •       Driller Total Depth         Producing       •       5/26/19       21227         Disposition of Gas Not Connected •       (KB Elevation (Ft above SL) *       Operator Reported Producing Method         Date Completed •       •       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run. • A gas well shall be considered complete when the well is capable of producing zone after casing has been run. • For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the date the well is capable of injection through tubing and packer into the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer and tubing type may be included in the *Additional Information* portion of the report.	NE NW       05       145 N       55 W       Dullin         Latitude of Weil Head (NAD 83): 47.74524178       Longitude of Weil Head (NAD 83): -102.59108301       Image: Completed Complete C	or Lot: Section:	Townsh	ip: Range	: County:
2304       2306         Operator Reported Well Status* ●       Spud/Start Date*       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       (Ft above SL)*       Operator Reported Producing Method         Not Connected        2329       Flowing         12/10/19       ●       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the utlimate producing gas through wellhead equipment from the utlimate producing gas well shall be considered complete when the well is capable of producing gas through wells, please report the date the well is capable of night on the use of night on the packer into the permitted injection zone. Also, please report the packer and tuping type may be included in the "Additional Information" portion of the report.	2304       2306         Operator Reported Well Status* •       Spud/Start Date*       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       KE Elevation (Ft above SL)*       Operator Reported Producing Method         Date Completed •       Image: Completed * Image: Completed	Latitude of Well Head (NAD 83): 47.74524178 Ground Elevation (Ft above SL):	Longitude ( (NAD 83): -102.591083 Graded Pac (Ft above S	of Well Head 301 d Elevation L):	
Operator Reported Well Status       Spud/Start Date       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         Date Completed       Image: Completed Producing in the state of the s	Operator Reported Well Status       Spud/Start Date       Driller Total Depth         Producing       5/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         Date Completed * •       2329       Flowing         12/10/19       •       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - A gas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing zone after casing has been run.         - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.         Size & Type of Pump	2304	2306	,	
Producing       5/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         Date Completed       2329       Flowing         12/10/19       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - A gas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing zone after casing has been run.         - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer and tubing type may be included in the "Additional Information" portion of the report.	Producing       5/26/19       21227         Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         Date Completed *        2329       Flowing         12/10/19       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - Agas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing gas through wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.         Size & Type of Pump	Operator Reported Well Status	5* 🕄 Sp	ud/Start Date *	Driller Total Depth
KB Elevation (Ft above SL)*       Operator Reported Producing Method         Date Completed * Image: Completed * Image	Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         Date Completed * •       2329       Flowing         12/10/19       •       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - A gas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing sone after casing has been run.         - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.         Size & Type of Pump	Producing -	- -	5/26/19	21227
KB Elevation (Ft above SL)*       Operator Reported Producing Method         Not Connected       2329       Flowing         Date Completed* Image: Completed Transmission of the state of the stat	Disposition of Gas       KB Elevation (Ft above SL)*       Operator Reported Producing Method         Not Connected       2329       Fiowing         Date Completed* *       - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - A gas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing gas through wellhead equipment from the ultimate producing some after casing has been run.         - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.         Size & Type of Pump				
Not Connected       2329       Flowing         Date Completed       Image: Completed       Image: Completed       Flowing         12/10/19       Image: Completed       Image: Completed       Flowing         12/10/19       Image: Completed       Image: Completed       Flowing         12/10/19       Image: Completed       Flowing       Flowing         12/10/19       Image: Complete       Flowing       Flowing </td <td>Not Connected       2329       Flowing         Date Completed * ①        - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - A gas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing zone after casing has been run.         - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.         Size &amp; Type of Pump      </td> <td>Disposition of Gas</td> <td>KB Elevatio (Et above S</td> <td>on L)*</td> <td>Operator Reported Producing Method</td>	Not Connected       2329       Flowing         Date Completed * ①        - An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.       - A gas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing zone after casing has been run.         - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.         Size & Type of Pump	Disposition of Gas	KB Elevatio (Et above S	on L)*	Operator Reported Producing Method
Date Completed * <ul> <li>- An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.</li> <li>- A gas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing gas through wells are report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer and tubing type may be included in the "Additional Information" portion of the report.         </li></ul>	<ul> <li><b>Date Completed</b> • •</li> <li>An oil well shall be considered completed when the first oil is produced through wellhead equipment into tanks from the ultimate producing interval after casing has been run.</li> <li>A gas well shall be considered complete when the well is capable of producing gas through wellhead equipment from the ultimate producing zone after casing has been run.</li> <li>For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.</li> </ul>	Not Connected 🗸	2329	_,	Flowing
12/10/19       Image: Completed Complete C	12/10/19       Image: Completed Comp	Date Completed *	An oil wel	I shall be considered (	completed when the first oil is
producing interval after casing has been run.     - A gas well shall be considered complete when the well is capable     of producing gas through wellhead equipment from the ultimate     producing zone after casing has been run.     - For EOR or SWD wells, please report the date the well is capable     of injection through tubing and packer into the permitted injection     zone. Also, please report the packer type and depth and the tubing     size, depth, and type. The packer and tubing type may be included in     the "Additional Information" portion of the report.	<ul> <li>For IS</li> <li>For EOR or SWD wells, please report the date the well is capable of producing gas through wellbead equipment from the ultimate producing zone after casing has been run.</li> <li>For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.</li> </ul>		produced th	rough wellhead equip	ment into tanks from the ultimate
of producing gas through wellhead equipment from the ultimate producing zone after casing has been run. - For ECR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.	of producing gas through wellhead equipment from the ultimate producing zone after casing has been run. - For EOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report. Size & Type of Pump		producing in - A gas well	terval after casing has shall be considered of	s been run.
producing zone after casing has been run. <ul> <li>For ECOR or SWD wells, please report the date the well is capable of injection through tubing and packer into the permitted injection zone. Also, please report the packer type and depth and the tubing size, depth, and type. The packer and tubing type may be included in the "Additional Information" portion of the report.</li> </ul>	producing zone after casing has been run.     - For EOR or SWD wells, please report the date the well is capable     of injection through tubing and packer into the permitted injection     zone. Also, please report the packer type and depth and the tubing     size, depth, and type. The packer and tubing type may be included in     the "Additional Information" portion of the report.  Size & Type of Pump		of producing	gas through wellhead	d equipment from the ultimate
the "Additional mormation" portion of the report.	Size & Type of Pump		<ul> <li>For EOR c</li> <li>of injection t</li> <li>zone. Also, j</li> <li>size, depth,</li> </ul>	one after casing has b or SWD wells, please hrough tubing and par please report the pack and type. The packer	een run. report the date the well is capable cker into the permitted injection er type and depth and the tubing and tubing type may be included in a clefte propert
Size & Type of Pump		Size & Type of Pump	une Auuitioi	ra mormation polition	i or are report.
		cite & type of tump			

## **Step 4: Geologic Information**

This section is used to provide information on types of electric or other logs that were run.

Check the box to the right of the logs that were run, then click the down arrow to move the selected logs into the box below.

API:	0705	File No.:	Field:	Type of Well:	Type of V	Vork:
30070	00725	8705	N/A	Oil & Gas	Completio	'n
lease	verify or en	ter location info	ormation on the W	/ell below.	* Indicates	Required Fie
)eepe	st Formatio	n Penetrated	•			
Bakk	en		•			
Selec	ct Types of E	lectric or Othe	r Logs Run That \	Nere Run		
			T Advanced	Filtering Actions -	Search	3
	Code	Log	Name †		Field	
	SON	Aco	ustic/Sonic			
	CHL	Cas	ed hole logs			
	CIL	Cas	ing Evaluation			
	CBL/CBU	JS Cen	ent Evaluation			
	DEN	Den	sity			
	DRL/MU	D Drilli	ng/Mud Logs			
	ENG/AD	V Eng	ineered/Advanced	i logs		
	GRS	Gan	ima to Ground Le	vel		
	GEOI	Geo	logic Interpretatio	n		
	OTHER	Othe	er			
	POR	Pore	sity			
	RES	Res	stivity			
M	< 1	► H	20 💌 items pe	er page	Viewing 1 - 12 from 1	2 results 🛛

Associated Types of Electric or Other Logs Run That Were Run

	Advanced Filtering	Actions -	Search	\$	
Code	Log Name †	Field	Review Decision	Actions	
SON	Acoustic/Sonic			Actions-	
CIL	Casing Evaluation			Actions-	

Cancel

Save

## If the cores were cut enter the pertinent details by clicking on "Actions" and "Add Core"

			▼ Advanced Filtering	Actions -
op MD (ft) † Be	ottom MD (ft)	Formation †		Actions
Cores Cut				×
Cores Cut			• Indicates Requ	× ired Field

## If the permit was approved in NorthSTAR zones of significance will be populated with the geologic prognosis:

- 1. Click on "Actions" at the right of each zone and edit
- 2. Update the record from "Estimated" to "Actual"
- 3. Change the estimated depth to the actual depth

			Advanced Filtering	Actions 🗸 🎗
Zone Name	Zone Category ↑	Top TVD (ft)	Bottom TVD (ft)	Actions
Pierre Fm.	Geologic Top	2137		Actions-
Greenhorn Fm.	Geologic Top	4830		Actions-



## If the permit was issued prior to NorthSTAR and converted over there will be no zones:

- 1. Click on "Actions" to add zones at this time
- 2. Enter <u>all</u> zones of significance

			* Indicates Required
Zone Category *	Zone Name *		Estimated/Actual
Geologic Top 🔹	Greenhorn Fm.		▼ Actual ▼
Other Zone Category 🕄	Other Zone Name 🕄		
Top TVD (ft)	Top MD (ft)	Bottom TVD (ft)	Bottom MD (ft)
4450	4531		
Pressure (PSI)	Oil/Gas Show		
		7	

Step 5, 6, and 7: Not applicable to oil and gas completions.

## **Step 8: Features and Cement**

Under Features & Cement, the wellbores will appear as they were permitted. The status is "Current", because that is the information currently in our system.

For each wellbore, you will need to select "Actions" – "Edit Wellbore", in order to update the information from the permitted values to the actual values.

atures & Cement									(Hide Form Navigat
<b>API:</b> 3302503610	<b>File No.</b> 35640	:	Field: N/A		Type Oil &	<b>of Well</b> Gas	:	<b>Type o</b> Comple	of Work: etion
Please enter info	ormation on	the Well	bore, Wel	lbore Cor	nstruction	Featur	es, Cement, a	and Ceme	ent classes below.
Wellbore Inform	nation								
							Advanced F	iltering	Actions -
Wellbore Type ↑	Well Code (API	Co Sta	Re Sta	Wel Sta (M	Dat Re	Total Dept (MD 1	Total h Depth ít) (TVD	Hole Size (in)	Actions
LATERAL 1	330250 3610- 02	Install ed	Curre nt	10581	N/A	2116	5		<u>Actions</u> -
SURFACEH OLE 1	330250 3610- 00	Install ed	Curre nt	0	N/A	2296		Edit We	Actions-
VERTICALC URVE 1	330250 3610- 01	Install ed	Curre nt	2296	N/A	1058	1		Actions <del>-</del>

## **Wellbore Information**

		* Indicator Dequired E
Vellbore Type*	Wellbore Sequence #* W	/elibore Code (API-12)
Lateral	· 02 · ·	3302503610-02
Vellbore Construction Status * 🕄		
Installed	•	
Record Status	Parent Wellbore * 🚯	
Proposed	VERTICALCURVE 1	•
Vellbore Start Depth (ft MD) *	Date TD Reached	Kick Off Point (MD ft)
11563	7/6/19	
zimuth°	Total Depth (MD ft) *	Total Depth (TVD ft)*
	21227	10801
rilling Mud Type *	MWD Contractor	Hole Size (in)
Produced Water	•	
Legal Entry Point into Pool & Spa	acing Unit - Entry Point Coordinates fror	m Well Head 🔮
From WH	▼ (N/S)	From WH
Qtr-Qtr/Lot Section	Township Range	County
Qtr-Qtr/Lot Section	Township Range	V V
Qtr-Qtr/Lot Section T Section T Section T Section	Township Range N Head (N/S)* 2578	County ▼ W ▼ From E ▼ (E/W)*
Qtr-Qtr/Lot     Section       Image: Section of the section of	Township Range N Range Head (N/S)* 2578 Section	County W V (E/W)*
Qtr-Qtr/Lot     Section       Image: Section     Image: Section	Township Range	County V V From E V (E/W)* Feet E Line
Qtr-Qtr/Lot     Section       Image: Section     Image: Section   <	Township Range N Range N Range Read Comparison N Comparison N Comp	County W V (E/W)*
Qtr-Qtr/Lot     Section       Image: Constraint of the section     Image: Constraint of the section       02     From WH*       02     From WH*       03     Feet       5     Feet       5     From Section       95     10	Township Range	County W County E (E/W)* From E (E/W)* County County County
Qtr-Qtr/Lot     Section       Image: Constraint of the section     Image: Constraint of the section       02     From WH*       02     From WH*       03     Feet From Section       5     Feet Section	Township       Range         •       •         •       •         •       •         •       (N/S)*         Section       544         •       544         •       149       •         •       149       •	County W County From E (E/W)* Feet From E Line County W Dunn V
Qtr-Qtr/Lot     Section       Image: Constraint of the section     Image: Constraint of the section       02     From WH*       02     From WH*       03     Freet       5     Feet       5     From Section       SE     16       ption	Township     Range       •     •       N     •   Head	County         ▼         W         From         E         Feet         From         E         VH*         Line         County         W         Dunn
Qtr-Qtr/Lot     Section       Image: Constraint of the section     Image: Constraint of the section       02     From WH*       02     From Nearest       5     Feet       6     Feet	Township Range	County         ▼         From         E       ▼         (E/W)*

#### After you have edited a wellbore, two records will be displayed.

- The updated record will have a status of "Proposed", because the as-drilled information just entered is proposed to be added to the Oil and Gas Division database.
- After the completion report has been accepted by the Oil and Gas Division the Well Details will show the new completion details.

ures & Cemen	ıt								[Hide Form N	aviga
<b>.PI:</b> 302503610 Ylease enter inf	File No 35640	n <b>::</b>	Field: N/A	ellbore C	Typ Oil a	e of We & Gas	ell: ures Cemen	Type Comp	of Work: Dietion	elov
Wellbore Infor	rmation							-,		
							Y Advance	d Filtering	Actions -	\$
Wellbore Type ↑	Well Code (API	Co Sta	Re Sta	We Sta (M	Dat Re	Total Depti (MD f	Total Depth ft) (TVD	Hole Size (in)	Actions	
LATERAL 1	3610- 02	ed	nt	1000	N/A	21168	5		Actions <b></b> ▼	ľ
LATERAL 1	330250 3610- 02	Install ed	Prop osed	1156 3	N/A	2122	7 10801		Actions-	
SURFACEH OLE 1	330250 3610- 00	Install ed	Curre nt	0	N/A	2296			Actions	
SURFACEH OLE 1	330250 3610- 00	Install ed	Prop osed	0	N/A	2281	2281		Actions	
VERTICALC URVE 1	330250 3610- 01	Install ed	Curre nt	2296	N/A	1058	1		Actions-	
VERTICALC	330250 3610-	Install	Prop	2296	N/A	11563	3 10801		Actions	

Wellbore Construct	Wellbore Construction Feature										
	Actions -										
Feature ID ↑	Install Status	Record Status	Feature Top MD (ft)	Feature Bottom MD (ft)	Outside Diam (deci inches)	Form Isolat	Actions				
Liner 1	Installed	Current	0	21227			Actions				
Production Casing 1	Installed	Current	0	11580			Actions				
Surface Casing 1	Installed	Current	0	2296			Actions				

#### You will follow the same procedure with the casing strings.

# After selecting "Actions" and "Edit Feature", you will be able to enter the actual values for each casing string.

Wellbore Construct	tion Feature							
					T A	Advanced	Filtering	Actions -
Feature ID ↑	install Status	Record Status	Feature Top MD (ft)	Featur Bottor MD (ft)	re n )	Outside Diam (deci inches)	Form Isolat	Actions
Liner 1	Installed	Current	0	21227				Actions-
Liner 1	Installed	Proposed	10570	21207		4.5		Actions-
Production Casing 1	Installed	Current	0	11580				Actions
Production Casing 1	Installed	Proposed	0	11563		7		Actions
Surface Casing 1	Installed	Current	0	2296				Actions-
Surface Casing 1	Installed	Proposed	0	2281		9.625		Actions

#### Updated values will again have a "Proposed" status until approved.

Cement Segr	nent					
				🝸 Advan	ced Filtering	Actions 🗸 🌣
Segment ID	Associated Feature ↑	install Status	Record Status	Top MD (ft)	Bottom (ft)	Actions
C2	Production Casing 1	Installed	Current	2300	11580	Actions-
C1	Surface Casing 1	Installed	Current	0	2296	Actions <del>-</del>

## Cement Segments will be updated in the same way.

## In this case, a liner needed to be added.

Cement Segm	ent					
				T Advance	ced Filtering	Actions -
Segment ID	Associated Feature ↑	Install Status	Record Status	Top MD (ft)	Bottom (ft)	Actions
СЗ	Liner 1	Not Installed	New	11574	21056	Actions
C2	Production Casing 1	Installed	Current	2300	11580	Actions-
C2	Production Casing 1	Installed	Propose d	4500	11563	Actions
C1	Surface Casing 1	Installed	Current	0	2296	Actions
C1	Surface Casing 1	Installed	Propose d	0	2281	Actions

## Add a cement class for each cement segment. Select "Actions" – "Add Cement Class"

Cement Class Uniqu       Assoc Cement Status       Install Istatus       Record Status       Comp (psi)       Weight (lbs/gal)       Slurry Consi (Bu)       Add Cement Class         Export - Excel	Cement Cl	ass								
Cement Class Uniqu       Assoc Cement Segm       Install Status       Record Status       Comp (psi)       Weight (lbs/gal)       Slurry Consi (Bu)       Add Cement Class         Lea       Export - Excel							T	Advanced F	iltering	Actions 🗸 🌣
Uniqu Segm Status Status (psi) (Ibs/gal) (Bu) Lea Export - Excel	Cement Class	Assoc Cement	Install	Record	Comp Stren	Weig	ht	Slurry Consi		Add Cement Class
	Uniqu	Segm	Status	Status	(psi)	(lbs/g	jal)	(Bu)	Lea	Export - Excel

#### Enter the information and click "Save"

ement Class					×
				* In	dicates Required Field
Associated Ceme	ent Segment*	Cement Type *		Construction Status *	0
C1	•	Class A Cemer	nt 🔻	Installed	•
Record Status	Compressive Stre	ngth (psi)	Weight (lbs/gal)	Slurry Cons	sistency (Bu)
New					
Lead/Tail		Volume (Sacks)		Yield (cu ft per sack)	
	•	450			
Description					
					/
					Cancel Save

## **Step 9: Completion & Perforation**

The completion interval needs to be updated in the same way as the Features and Cement.

# For the Completion Interval "C1", select "Actions" – "Edit Completion Interval", in order to update the information.

npletion 8	Rerforatio	n								(Hide Form Na	iviga
API: 33025036	F 10 3	<b>ile No.:</b> 5640	Fi	i <b>eld:</b> /A	T (	<b>Type of N</b> Dil & Gas	Nell:		Type of Comple	f Work: etion	
Please er nformatio Comple	iter Comple in below. tion Interva	etion Interva	als and C	ompletior	) Perforat	ions			* Indicate	es Required F	-iel
							▼ Ad	vanced Fi	Itering	Actions -	\$
Co Inte Uni	Well	Comp Interval Type	Pool St	Inst Sta	Rec Sta	Тор М	Во М	Field	Pool	Actions	
C1	VERTI CALCU RVE 1	Oil & Gas	Shut- In	Install ed	Curre nt			MAN DARE	BAKK EN	<u>Actions</u> -	

									* Indicate	es Required
Vellbore *			Comple	tion Interval Type *	Pool Stat	tus		Pool St	atus Date	
LATERAL 1		•	Oil & G	Gas 🔻	Produci	ng by Flowing	•	12/15	/19	ä
ool Comple	tion Date		Interval	Construction Status	• 0	Record Sta	itus			
12/10/19	Ê		Installe	ed	•	Proposed				
op MD (ft) *			Top TVE	D (ft)	Bottom N	/ID (ft) *		Bottom	TVD (ft)	
11574			10801		21056			10802	2	
op Coordina	ates (ft): *				Bottom C	Coordinates (f	t): *			
152	From WH	s	•	N/S	9802	From WH	۱ (s	S <b>v</b>	N/S	
2555	From WH	E	•	E/W	2578	From	E	•	E/W	
Longstring (	Casing Point		T		Coordina	ttes (ft):		•		
Longstring (	Feet From Feet From		•	Line	Coordina	ites (ft): From WH From WH		• •	N/S E/W	
Longstring ( Footages:	Casing Point Feet From Feet From Section		▼ ▼ Townsh	Line Line lip	Coordina	ites (ft): From WH From WH		v v County	N/S E/W	
Longstring ( Footages: Qtr-Qtr	Casing Point Feet From Feet From Section		Townsh	Line Line tip	Coordina	ntes (ft): From WH From WH		County	N/S E/W	•
Longstring ( Footages: Qtr-Qtr	Casing Point Feet From Feet From Section Cases of the sector of the sect		v v Townsh	Line Line Tip V Field	Coordina	ttes (ft): From WH From WH	Pool	v v County	N/S E/W	•
Longstring ( Footages: Qtr-Qtr	Casing Point Feet From Section Cecovery Unit	•	Townsh	Line Line Ty T Field MANDAREE	Coordina	ttes (ft): From From WH	Pool BAKK	County EN	N/S E/W	·
Longstring ( Footages: Qtr-Qtr inhanced Re	Casing Point Feet From Section Covery Unit Feet From Feet Feet From Feet From Feet Feet From Feet From Feet From Fee	•	Townsh	Line Line N Field MANDAREE	Coordina Range	Ites (ft): From From WH	Pool	County EN	N/S E/W	▼ ▼ on Order
Longstring ( Footages: Qtr-Qtr nhanced Re pacing/Drill	Casing Point Feet From Section Covery Unit Feed From Feet From From Feet From From From From From From From From	▼	Townsh	Line Line N Field MANDAREE Classification	Coordina Range	ttes (ft): From From WH	Pool BAKK	County EN Industr 28991	N/S E/W ial Commissio	▼ ▼ on Order

Reservation Surface Boundary Intersected by Spacing/Drilling Unit 😉 \_ ]

Eart Borthold Deconvotion

## Add perforation information in the next section.

Include as much information as you are able.

						Y Advanc	ed Filtering	Actions -	\$			
rfora ique	Associ Compl	Install	Record		Open . Perfor.	 Тор	Bottom	Add Cor	npletion O	pen Hole o	r Perfora	atio
	Interva	Status	Status	Туре	Status	MD (f	t) MD (ft)	Export -	Excel			
omplet	tion Open	Hole or	Perfora	ation								>
									* Indic	ates Req	uired F	ielo
Asso	ciated Con	npletion l	nterval *		Const	ruction St	tatus * 🔒	F	Record S	tatus		
C1				•	Insta	lled		•	New			
Туре	ŧ					Open H	lole or Pe	rforation S	tatus *			
Perf	foration				•	Open	1				•	
Тор М	1D (ft) *					Bottom	n MD (ft) *					
115	74					2105	6					
Perfo	ration Diar	neter (ind	ches)			Perfora	ation Spac	ing (ft)				
Numb	er of Shot	s (per fo	ot)			Perfora	ated Date					
Objec	tive Horiz	ons*										
Bakl	ken 🗙										×	
Desci	ription											
												]

## Step 10: Stimulations & Tests

In Stimulations & Tests, you will need to add and initial production test and well stimulation.

nulations & Tes	its				[Hide Form Navigation]
<b>API:</b> 3302503610	File No.: 35640	Field: N/A	<b>Type of Well:</b> Oil & Gas	Type o Comple	of Work: etion
lease enter inf ool does not h Stimulations &	formation for stimu nave an installed C & Tests	lations and tests belo ompletion Interval.	w. An Initial Production	n Test is required	if the associated
			▼ Adv	anced Filtering	Actions -
Test Type		Associated Completion Interval(s)	Date	Actions	Add Initial Production Add Production Test Add Drill Stem Test Add Well Stimulation
					Export - Excel

ulation Or Test				
			* Indicates Require	ed I
Test Type	Actual Test D	ate *		
Initial Production Test	12/15/19	<b>i</b> •		
Pool Name *		Formation		
BAKKEN	•	Bakken	•	
Comments				
				1
Prod Method *	Pool 2 Name		Duration (hrs)	
Flowing -		•	24	
Choke (in/64)	Oil (Bbls)	Water (Bbls)	Gas (MCF)	
30	2341	3083	1062	
Oil Gravity - API	Gas Oil Ratio	Flowing Tubing (	psi)	
42	453.65			
Flowing Casing (psi)	Bottom Hole	Pressure (psi)		
2400				
Chlorides (ppm)	Hydrogen Su	Ifide Concentration	(ppm)	
Bottom Hole Temp (°F)	)			
24-Hour Oil (Bbls)	24-Hour Wate	er (Bbls)	24-Hour Gas (MCE)	

imulation Or Test					×
				* Indicates Requ	ired Field
Date Stimulated *		Pool*			
11/15/2019	1	BAKKEN		•	
Stimulated Formation *					
Bakken		•			
Associated Completion	Interval *				
C1 - Lateral X					]
Top MD (ft) *	Bottom MD (ft)*	Stimul	ated Stages *	Volume *	
11574	21056	33		120445	]
Volume Units *	Treatment Type	*	Acid %		
Barrels 🔹	Sand Frac	•			
Lbs Proppant	Max Tre	atment PSI*			
8266706	9665				
Max Treatment Rate (bb	ls/min)*				
105.7					
Bakken Shoe/Toe Desig	n				
Liner cemented in the la	ateral with a fully c	emented shoe ar	nd no ability to f	rac out the shoe.	]
Details					
					1
				Cancel	Save

## **Step 11: Completed Work**

Add comments about the completion.

## Step 12: Document Upload

BAKKEN PETROLEUM SYSTEM (I.E.: Bakken, Bakken/Three Forks, Sanish) WELLS: In Document Upload, attach a wellbore completion schematic.

Do	ocument Upload						[Hide Form Na	avigation]
	<b>API:</b> 3302503610	File No.: 35640	Field: N/A	<b>Type</b> Oil 8	e of Well: Gas	<b>Type</b> Com	of Work: pletion	
	Select documents document.	to be uploaded, if a	pplicable. Click Add	d New	and complete	all required field	ds to upload a	
		ocuments	▼ Advanced Filte	ring	Actions -	Search		\$
	Upload Date ↓	Uploaded By	Туре	Des	Add New		Actions	
					Export - Ex Export - Pt	cel DF		

## **Step 13: Form Submit**

Add Comments and submit the Form.