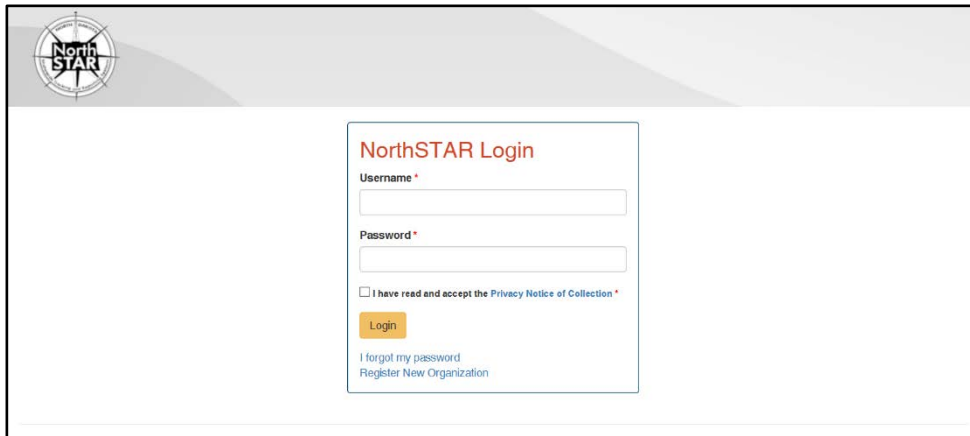


Guide to Creating Plugging Procedures in NorthSTAR

V1.0 01.27.2020

How to Get Started

- Log into NorthSTAR using Microsoft Edge, Google Chrome, or Firefox.
URL: <https://northstar.dmr.nd.gov>



To begin a sundry for the intent to plug & abandon a well:

- Select **[Forms]** and **[Online Forms]** from the options at the top of the page.
- Select **[Sundry]**.
- Select **[Well]** for *Sundry Type* and / or *Facility Type*.
- Select **[Request To]** and **[Plug & Abandon]**.
- Fill out any other required fields. The *Due Date* is the date your organization requesting the form be reviewed by.

Except in emergency situations and other unexpected events, please allow at least 4-5 business days after the sundry has been submitted for P&A procedures to be reviewed and processed.

After review the sundry may be returned to the operator to make changes to the original proposal prior to the sundry being approved.



Operator Information

Contacts added to the sundry will be alerted by email when the status of the sundry changes.

Users may add a contact by selecting *[Actions]* and *[Add Contact]*.

- To add a contact that is already in the NorthSTAR system, find their *Contact Role* and name in the drop down menus.
- To add a contact that is not in the NorthSTAR system, uncheck the box titled *[Is this contact already in NorthSTAR?]* and fill out all required fields.

Operator Information [Hide Form Navigation]

Please confirm the correct Organization has been selected, and designate contact(s) with their correct role. By default, the form submitter is selected as a contact. * Indicates Required Field

Organization Name
SMITH & SONS, LLC

Type of Organization
LLC

Organization Primary Address
123 3RD AVE E
WILLISTON, ND 58801

Organization Primary Phone Number
(XXX) XXX-XXXX

Ext

Contacts

Advanced Filtering Actions

Name ↑	Phone Number	Email	Role	
John Smith	(XXX) XXX-XXXX	john.smith@hotmail.com	Submitter	<input type="checkbox"/>

Add Contact
Export - Excel
Export - PDF

Add Contact ×

* Indicates Required Field

Is this contact already in NorthSTAR? ←

Contact Role*

Find Person

Contact Name*

Phone Number*

Email*

Ext

Advanced Filtering Actions

Role	Actions
	Actions
Submitter	

Facility Information

The user may search for the well in the top table using many different criteria, including well file no., well name, well type, etc.

- Use the *[Advanced Filtering]* button to narrow search criteria even further.
- Some additional search fields, such as County, are available by clicking the *[Gear Icon]* and selecting the field you wish to add.

The user must add a well as the subject of the sundry by selecting it in the top table and clicking the down arrow symbol *[v]*. This will move the well into the table below.

The screenshot displays the 'Facility Information' interface. At the top, there is a header bar with 'Facility Information' on the left and '[Hide Form Navigation]' on the right. Below the header, the section is titled 'Associated Well'. A table with five columns is shown: 'API' (with an upward arrow), 'File No.', 'Well Name', 'Well Type', and 'Well Status'. The first row contains the values 'XXXXXXXX', 'XXXXX', 'WELL NAME', 'Water Injection', and 'Abandoned (Shut-In > Months)'. Above the table, there are three buttons: 'Advanced Filtering' (with a downward arrow icon), 'Actions', and 'Search'. A gear icon is located to the right of the 'Search' button. A dropdown menu is open, listing various search criteria with checkboxes: API (checked), File No. (checked), Well Name (checked), Well Type (checked), Well Status (checked), County (unchecked), Field (checked), PLSS (unchecked), Sec (unchecked), Twp (unchecked), Rng (unchecked), QtrQtr (unchecked), and Spud (unchecked). Red arrows point to the 'Advanced Filtering' button and the gear icon.

API ↑	File No.	Well Name	Well Type	Well Status
XXXXXXXX	XXXXX	WELL NAME	Water Injection	Abandoned (Shut-In > Months)

Sundry Data – The Basics

The **Work Date** is the date that the operator plans to start operations related to the sundry.

Some information about the wellbore will already be populated in the tables. If a piece of information appears to be inaccurate, please review the well file prior to making any changes.

Table Descriptions:

- Wellbore Information lists the openhole record of the wellbore. Missing or inaccurate records will require additional paperwork to update.
- Wellbore Construction Feature itemizes the objects inside the wellbore. **Features** may also be proposed on the sundry. Missing **Features** may be added here.
- Cement Segment is a description of the cement inside and behind casing. **Cement segments** may also be proposed on the sundry. **Cement Segments** must have an **Associated Feature**. Missing **Cement Segments** may be added here.
- Cement Class is a description of the cement from the **Cement Segments** table. The cement class must have an associated **Cement Segment**. Missing **Cement Class** information may be added here.
- Completion Intervals and Completion Open Hole or Perforations should already be filled out. Missing records may be added.

The tables may be formatted to a better size using the [\[Hide Form Navigation\]](#) button.

Information may be added to each table by clicking on [\[Actions\]](#) at the top of the table and selecting [\[Add New\]](#).

Information regarding a **Feature, Cement Segment, Cement Class, Completion Interval, or Completion Open Hole or Perforations** may be edited by clicking [\[Actions\]](#) for the specific item and [\[Edit Record\]](#).

Items added by the user on this sundry will have a **New Record Status**. These items may also be deleted by the user by clicking on [\[Actions\]](#) for the specific item and selecting [\[Delete Record\]](#).

Example P&A Procedure

1. Do One-Call prior to going to well. Notify NDIC 24 hours prior to commencing work. (Jon Rumppe@ 701-XXX-XXXX).
2. Prepare location for workover. MIRU pulling unit. Discuss scope of work to be performed at this time.
3. Dig out surface casing valve and bleed off.
4. Bleed off well through hot oil truck.
5. ND wellhead. NUBOP.
6. Trip in hole with 2 7/8" workstring, bit and scraper for 7" casing to ±8,050' (Cement retainer). Circulate well with clean, 10 ppg SW. Trip out of hole with tubing, bit, and scraper.
7. Rig up wireline unit. Run cement bond log from 8,050' to Top of Cement. Trip out of hole and rig down wireline unit.
8. Trip in hole with workstring and sting into retainer. Establish injection rate. Rig up cement equipment. Mix and pump 100 sks Class G cement. Squeeze 90 sks into formation and leave 10sks on CICR. Rig down cement equipment.
 - a. If unable to establish injection rate, spot 45sks class G cement on top of CICR.
9. Pick up to ±6,223' (Spearfish at ±6,173') and pump a balanced cement plug of 50sks of class G cement.
10. Pick up to ±4423' (Mowry at ±4,373'). Pump a balanced cement plug of 50sks of class G cement. Trip out of hole with tubing.
11. Rig up electric line. Run in hole with perforating gun and shoot 4 squeeze holes at 672' (50' below surface casing shoe). Trip out of hole with perforating gun. Rig down electric line unit.
12. Trip in hole with tubing and CICR. Set retainer @ 572ft (50ft above surface shoe). Establish injection rate. Mix & pump 100sks neat G cement. Squeeze 90sks into perms. Leave 10sks on top of retainer. Rig down cement equipment. TOO H w/ tubing & stinger.
13. Trip in hole picking up mechanical cutter and 2jts tubing. Rig up swivel and tie in pump. Apply pressure to tubing to activate cutter. Rotate tubing to cut casing. After indication cut is successful rig down pump and swivel. Lay down tubing. ND BOP and NU WH. Break circulation out of surface casing. Mix and pump 30sks Class G cement to cut a 60'(surface plug). Rig down cement equipment.
14. RDMO
15. Dig out wellhead and cut off casing 4' below ground level. Weld ½" steel cap on casing with well file number and date inscribed. Dig out deadmen.
16. Submit notice of intent to reclaim to Cody Vanderbusch prior to reclamation .
17. Submit Form 7 Plugging Report.

Sundry Data – Adding Proposed Cement Squeeze for Existing Perforations

Proposed features for a cement squeeze may include: Cast Iron Bridge Plug, Perforations, Cement Squeeze, Cement Retainer.

In order to add a proposed cement squeeze, select *[Actions]* and *[Add Feature]*:

- Add a *[Cement Squeeze] Feature*.
- **Construction Status** will be *[Not Installed]*.
- **Wellbore Start** and **Wellbore End** will be *[VerticalHole1]* because the item is inside the vertical section of the wellbore below the **SurfaceHole1** depth.
- **Feature Bottom MD (ft)** will be the bottom lowest perforation depth for the cement squeeze (see diagram in the next section).
- **Feature Top MD (ft)** will be the proposed top of cement. 10skfs will leave an estimated 56ft of cement on top of the *Cement Retainer*.

Wellbore Construction Feature							
Feature ID	Install Status	Record Status	Feature Top MD (ft) ↑	Feature Bottom MD (ft)	Outside Diameter (decimal inches)	Formation Isolated	Actions
Production Casing 1	Installed	Current	0	8262			Actions▼
Surface Casing 1	Installed	Current	0	622			Actions▼
Cement Squeeze 1	Installed	Current	3959	3990			Actions▼
Cement Retainer 1	Installed	Current	8050	8051			Actions▼

Wellbore Construction Feature ✕

* Indicates Required Field

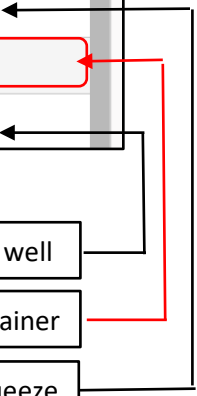
Feature * <input type="text" value="Cement Squeeze"/>	Construction Status * <input type="text" value="Not Installed"/>	Record Status <input type="text" value="New"/>
Wellbore Start * <input type="text" value="VERTICALHOLE 1"/>	Wellbore End * <input type="text" value="VERTICALHOLE 1"/>	
Feature Top MD (ft) * <input type="text" value="7994"/>	Feature Bottom MD (ft) * <input type="text" value="8320"/>	Outside Diameter (decimal inches) <input type="text"/>
Weight (lbs) <input type="text"/>	Grade/Type <input type="text"/>	Burst Pressure (psi) <input type="text"/>
Feature Condition <input type="text"/>	Install Date <input type="text"/>	Remove Date <input type="text"/>
Pulled <input type="text"/>	Connection Type <input type="text"/>	Formation Isolated <input type="text" value="Madison Group"/>
Description <input type="text" value="100skfs G cement. 90skfs below CICR @ 8050ft & 10skfs on top to isolate OH interval from 8271-8320ft"/>		

Wellbore Construction Feature							
Advanced Filtering Actions ⚙️							
Feature ID	Install Status	Record Status	Feature Top MD (ft) ↑	Feature Bottom MD (ft)	Outside Diameter (decimal inches)	Formation Isolated	Actions
Production Casing 1	Installed	Current	0	8262			Actions
Surface Casing 1	Installed	Current	0	622			Actions
Cement Squeeze 1	Installed	Current	3959	3990			Actions
Cement Squeeze 2	Not Installed	New	7994	8320			Actions
Cement Retainer 1	Installed	Current	8050	8051			Actions

Item installed in Dec 1980 to TA well

Proposed cement squeeze w/ 10sks on top of Cement Retainer

Previous remedial cement squeeze



Sundry Data – Adding Proposed Balanced Plugs Across Spearfish & Mowry

Proposed features for balanced plugs may include: Cast Iron Bridge Plug & Balanced Plug.

In order to add the balanced plug features, for each feature select **[Actions]** and **[Add Feature]**:

- Add **[Balanced Plug] Features**.
- **Construction Status** will be **[Not Installed]**.
- **Wellbore Start** and **Wellbore End** will be **[VerticalHole1]** because the item is inside the vertical section of the wellbore below the **SurfaceHole1** depth.
- **Feature Bottom MD (ft)** will be the depth of the end of tubing.
- **Feature Top MD (ft)** will be the calculated cement top for the balanced plug.

Wellbore Construction Feature							
Feature ID	Install Status	Record Status	Feature Top MD (ft) ↑	Feature Bottom MD (ft)	Outside Diameter (decimal inches)	Formation Isolated	Actions
Production Casing 1	Installed	Current	0	8262			Actions▼
Surface Casing 1	Installed	Current	0	622			Actions▼
Cement Squeeze 1	Installed	Current	3959	3990			Actions▼
Cement Retainer 1	Installed	Current	8050	8051			Actions▼

Wellbore Construction Feature ✕

* Indicates Required Field

Feature * <input type="text" value="Balanced Cement Plug"/>	Construction Status * <input type="text" value="Not Installed"/>	Record Status <input type="text" value="New"/>
Wellbore Start * <input type="text" value="VERTICALHOLE 1"/>	Wellbore End * <input type="text" value="VERTICALHOLE 1"/>	
Feature Top MD (ft) * <input type="text" value="5963"/>	Feature Bottom MD (ft) * <input type="text" value="6223"/>	Outside Diameter (decimal inches) <input type="text"/>
		Inside Diameter (decimal inches) <input type="text"/>
Weight (lbs) <input type="text"/>	Grade/Type <input type="text"/>	Burst Pressure (psi) <input type="text"/>
Feature Condition <input type="text"/>	Install Date <input type="text"/>	Remove Date <input type="text"/>
Pulled <input type="text"/>	Connection Type <input type="text"/>	Formation Isolated <input type="text" value="Spearfish Fm."/>
Description <input type="text" value="50sk class G cement balanced plug. 260ft in 7in 23ppf casing."/>		

Wellbore Construction Feature ✕

* Indicates Required Field

Feature *
Balanced Cement Plug ←

Construction Status *
Not Installed ←

Record Status
New

Wellbore Start * ⓘ
VERTICALHOLE 1 ←

Wellbore End * ⓘ
VERTICALHOLE 1 ←

Feature Top MD (ft) *
4163 ←

Feature Bottom MD (ft) *
4423 ←

Outside Diameter (decimal inches)

Inside Diameter (decimal inches)

Weight (lbs)

Grade/Type

Burst Pressure (psi)

Feature Condition

Install Date

Remove Date

Pulled

Connection Type

Formation Isolated
Dakota Group ←

Description
50sk neat G balanced plug. 260ft in 7in 23ppf casing ←

Wellbore Construction Feature

Advanced Filtering Actions ⚙

Feature ID	Install Status	Record Status	Feature Top MD (ft) ↑	Feature Bottom MD (ft)	Outside Diameter (decimal inches)	Formation Isolated	Actions
Production Casing 1	Installed	Current	0	8262			Actions-
Surface Casing 1	Installed	Current	0	622			Actions-
Cement Squeeze 1	Installed	Current	3959	3990			Actions-
Balanced Cement Plug 2	Not Installed	New	4163	4423		Dakota Group	Actions-
Balanced Cement Plug 1	Not Installed	New	5963	6223		Spearfish Fm.	Actions-
Cement Squeeze 2	Not Installed	New	7994	8320			Actions-

Sundry Data – Adding Proposed Cement Squeeze @ Surface Shoe

Proposed features for proposed cement squeezes may include: Cast Iron Bridge Plug, Cement Retainer, Cement Squeeze, and Perforations.

In order to add proposed perforations and cement retainer features, for each feature select **[Actions]** for the table and **[Add Feature]**:

- Add **[Perforations]**, **[Cement Retainer]**, and **[Cement Squeeze] Features**.
- **Construction Status** will be **[Not Installed]**.
- **Wellbore Start** and **Wellbore End** will be **[VerticalHole1]** or **[SurfaceHole1]** depending on whether the **Feature** starts or ends above or below the **SurfaceHole1** depth.
- **Feature Bottom MD (ft)** and **Feature Top MD (ft)** will be the proposed bottom and top of the **Feature**.

Wellbore Construction Feature							
Feature ID	Install Status	Record Status	Feature Top MD (ft) ↑	Feature Bottom MD (ft)	Outside Diameter (decimal inches)	Formation Isolated	Actions
Production Casing 1	Installed	Current	0	8262			Actions▼
Surface Casing 1	Installed	Current	0	622			Actions▼
Cement Squeeze 1	Installed	Current	3959	3990			Actions▼
Cement Retainer 1	Installed	Current	8050	8051			Actions▼

Wellbore Construction Feature ×

* Indicates Required Field

Feature * <input type="text" value="Perforation"/>	Construction Status * <input type="text" value="Not Installed"/>	Record Status <input type="text" value="New"/>
Wellbore Start * <input type="text" value="VERTICALHOLE 1"/>	Wellbore End * <input type="text" value="VERTICALHOLE 1"/>	
Feature Top MD (ft) * <input type="text" value="672"/>	Feature Bottom MD (ft) * <input type="text" value="673"/>	Outside Diameter (decimal inches) <input type="text"/>
		Inside Diameter (decimal inches) <input type="text"/>
Weight (lbs) <input type="text"/>	Grade/Type <input type="text"/>	Burst Pressure (psi) <input type="text"/>
Feature Condition <input type="text"/>	Install Date <input type="text"/>	Remove Date <input type="text"/>
Pulled <input type="text"/>	Connection Type <input type="text"/>	Formation Isolated <input type="text"/>
Description <input type="text" value="4spf perforations 50ft below surface shoe for cement squeeze"/>		
<input type="button" value="Cancel"/>		<input type="button" value="Save"/>

Wellbore Construction Feature ×

* Indicates Required Field

Feature * Cement Retainer ←	Construction Status * Not Installed ←	Record Status New
Wellbore Start * ⓘ SURFACEHOLE 1 ←	Wellbore End * ⓘ SURFACEHOLE 1 ←	
Feature Top MD (ft) * 572 ←	Feature Bottom MD (ft) * 573 ←	Outside Diameter (decimal inches) <input type="text"/>
		Inside Diameter (decimal inches) <input type="text"/>
Weight (lbs) <input type="text"/>	Grade/Type <input type="text"/>	Burst Pressure (psi) <input type="text"/>
Feature Condition <input type="text"/>	Install Date <input type="text"/>	Remove Date <input type="text"/>
Pulled <input type="text"/>	Connection Type <input type="text"/>	Formation Isolated <input type="text"/>
Description Cement retainer for base of surface casing squeeze. 100ft above perforations and 50ft above surface shoe. ←		

Cancel Save

Wellbore Construction Feature ×

* Indicates Required Field

Feature * Cement Squeeze ←	Construction Status * Not Installed ←	Record Status New
Wellbore Start * ⓘ SURFACEHOLE 1 ←	Wellbore End * ⓘ VERTICALHOLE 1 ←	
Feature Top MD (ft) * 516 ←	Feature Bottom MD (ft) * 672 ←	Outside Diameter (decimal inches) <input type="text"/>
		Inside Diameter (decimal inches) <input type="text"/>
Weight (lbs) <input type="text"/>	Grade/Type <input type="text"/>	Burst Pressure (psi) <input type="text"/>
Feature Condition <input type="text"/>	Install Date <input type="text"/>	Remove Date <input type="text"/>
Pulled <input type="text"/>	Connection Type <input type="text"/>	Formation Isolated <input type="text"/>
Description 100sks G cement. 90sks below CICR @ 572ft & 10sks on top to isolate across surface shoe ←		

Cancel Save

Wellbore Construction Feature							
Advanced Filtering Actions ⚙️							
Feature ID	Install Status	Record Status	Feature Top MD (ft) ↑	Feature Bottom MD (ft)	Outside Diameter (decimal inches)	Formation Isolated	Actions
Production Casing 1	Installed	Current	0	8262			Actions
Surface Casing 1	Installed	Current	0	622			Actions
Cement Squeeze 3	Not Installed	New	516	672			Actions
Cement Retainer 2	Not Installed	New	572	573			Actions
Perforation 1	Not Installed	New	672	673			Actions
Cement Squeeze 1	Installed	Current	3959	3990			Actions
Balanced Cement Plug 2	Not Installed	New	4163	4423		Dakota Group	Actions

Sundry Data – Adding Proposed Casing Cut and Surface Plug

Proposed features for surface plugs may include: Perforation, Cut, Cut and Pull, and Surface Plug.

In order to add the surface plug features, for each **Feature** select **[Actions]** and **[Add Feature]**:

- Add **[Cut]** and **[Surface Plug]** Features.
- **Construction Status** will be **[Not Installed]**.
- **Wellbore Start** and **Wellbore End** will be **[SurfaceHole1]** because the items are above the **SurfaceHole1** depth.
- **Feature Bottom MD (ft)** and **Feature Top MD (ft)** will be the proposed bottom and top of the **Feature**.

Wellbore Construction Feature							
Feature ID	Install Status	Record Status	Feature Top MD (ft) ↑	Feature Bottom MD (ft)	Outside Diameter (decimal inches)	Formation Isolated	Actions
Production Casing 1	Installed	Current	0	8262			Actions▼
Surface Casing 1	Installed	Current	0	622			Actions▼
Cement Squeeze 1	Installed	Current	3959	3990			Actions▼
Cement Retainer 1	Installed	Current	8050	8051			Actions▼

Wellbore Construction Feature ✕

* Indicates Required Field

Feature * <input type="text" value="Cut"/>	Construction Status * <input type="text" value="Not Installed"/>	Record Status <input type="text" value="New"/>
Wellbore Start * ⓘ <input type="text" value="SURFACEHOLE 1"/>	Wellbore End * ⓘ <input type="text" value="SURFACEHOLE 1"/>	
Feature Top MD (ft) * <input type="text" value="60"/>	Feature Bottom MD (ft) * <input type="text" value="61"/>	Outside Diameter (decimal inches) <input type="text"/>
		Inside Diameter (decimal inches) <input type="text"/>
Weight (lbs) <input type="text"/>	Grade/Type <input type="text"/>	Burst Pressure (psi) <input type="text"/>
Feature Condition <input type="text"/>	Install Date <input type="text"/>	Remove Date <input type="text"/>
Pulled <input type="text"/>	Connection Type <input type="text"/>	Formation Isolated <input type="text"/>
Description <input type="text" value="Casing cut for surface plug. 80ft below GL. No casing recovery."/>		

Wellbore Construction Feature ✕

* Indicates Required Field

Feature * ←

Construction Status * ←

Record Status

Wellbore Start * ⓘ ←

Wellbore End * ⓘ ←

Feature Top MD (ft) * ←

Feature Bottom MD (ft) * ←

Outside Diameter (decimal inches)

Inside Diameter (decimal inches)

Weight (lbs)

Grade/Type

Burst Pressure (psi)

Feature Condition

Install Date

Remove Date

Pulled

Connection Type

Formation Isolated

Description

←

Wellbore Construction Feature

Advanced Filtering Actions ⚙

Feature ID	Install Status	Record Status	Feature Top MD (ft) ↑	Feature Bottom MD (ft)	Outside Diameter (decimal inches)	Formation Isolated	Actions
Production Casing 1	Installed	Current	0	8262			Actions ▾
Surface Casing 1	Installed	Current	0	622			Actions ▾
Surface Plug 1	Not Installed	New	0	61			Actions ▾
Cut 1	Not Installed	New	60	61			Actions ▾

Sundry Data – Adding Cement Segments

Cement Segments must have an associated **Feature** from the **Wellbore Construction Feature** table.

To add **Cement Segments**, for each **Segment** select **[Actions]** and **[Add Cement Segment]**:

- For cement squeezes on production / injection intervals or balanced plugs, select **[Inside]** for **Inside / Outside Casing?**
- For cement squeezes due to inadequate casing cement (where cement is planned to be squeezed inside and behind casing), select **[N/A]** for **Inside / Outside Casing?**
- The **Top** and **Bottom** of the **Cement Segment** will be the same depths as the **Associated Features**.
- Details about a multi-stage cement job can be accounted for in the **Cement Classes** section.

Segment ID	Associated Feature ↑	Install Status	Record Status	Top MD (ft)	Bottom MD (ft)	Actions
C4	Balanced Cement Plug 1	Not Installed	New	5963	6223	Actions
C5	Balanced Cement Plug 2	Not Installed	New	4163	4423	Actions
C3	Cement Squeeze 2	Not Installed	New	7994	8320	Actions
C6	Cement Squeeze 3	Not Installed	New	516	672	Actions
C2	Production Casing 1	Installed	Current	3491	8262	Actions
C1	Surface Casing 1	Installed	Current	0	622	Actions

Cement Segment ✕

* Indicates Required Field

Associated Feature *

Inside/Outside Casing? *

Construction Status * ⓘ

Record Status

Top MD (ft)

Bottom MD (ft)

Verify Method

Cementing Company

Install Date

Remove Date

Description

Cement Segment ✕

* Indicates Required Field

Associated Feature * <input type="text" value="Balanced Cement Plu..."/>	Inside/Outside Casing? * <input type="text" value="Inside"/>	Construction Status * ⓘ <input type="text" value="Not Installed"/>
Record Status <input type="text" value="New"/>	Top MD (ft) <input type="text" value="5963"/>	Bottom MD (ft) <input type="text" value="6223"/>
Verify Method <input type="text"/>	Cementing Company <input type="text" value="ALTCEM"/>	
Install Date <input type="text"/>	Remove Date <input type="text"/>	
Description <input type="text" value="50sk (260ft) balanced plug from 50ft below top of Spearfish"/>		

Cement Segment ✕

* Indicates Required Field

Associated Feature * <input type="text" value="Balanced Cement Plu..."/>	Inside/Outside Casing? * <input type="text" value="Inside"/>	Construction Status * ⓘ <input type="text" value="Not Installed"/>
Record Status <input type="text" value="New"/>	Top MD (ft) <input type="text" value="4163"/>	Bottom MD (ft) <input type="text" value="4423"/>
Verify Method <input type="text"/>	Cementing Company <input type="text" value="ALTCEM"/>	
Install Date <input type="text"/>	Remove Date <input type="text"/>	
Description <input type="text" value="50sk (260ft) balanced plug from 50ft below top of Dakota Mowry"/>		

Cement Segment X

* Indicates Required Field

Associated Feature * ← **Inside/Outside Casing? *** ← **Construction Status *** ←

Record Status **Top MD (ft)** ← **Bottom MD (ft)** ←

Verify Method **Cementing Company** ←

Install Date **Remove Date**

Description

Cement squeeze to cover base of surface casing @ 622ft. CICR @ 572ft w/ 10sks (56ft) on top of CICR ←

Cement Segment						
Segment ID	Associated Feature ↑	Install Status	Record Status	Top MD (ft)	Bottom MD (ft)	Actions
C4	Balanced Cement Plug 1	Not Installed	New	5963	6223	Actions
C5	Balanced Cement Plug 2	Not Installed	New	4163	4423	Actions
C3	Cement Squeeze 2	Not Installed	New	7994	8320	Actions
C6	Cement Squeeze 3	Not Installed	New	516	672	Actions
C2	Production Casing 1	Installed	Current	3491	8262	Actions
C1	Surface Casing 1	Installed	Current	0	622	Actions

Sundry Data – Adding Cement Classes

Cement Classes must have an associated **Cement Segment** from the **Cement Segment** table.

To add **Cement Classes** select **[Actions]** and **[Add Cement Segment]**:

- Select the **[Associated Cement Segment]** from the list.
- Select the **[Cement Type]** from the list.
- Add all other pertinent information about the **Cement Segment** in the spaces provided.
- Multiple **Cement Classes** (e.g. stages) can be associated with a single **Cement Segment**. An example of this is choosing a lead and tail **Cement Class** for a single **Cement Segment**.

Cement Class Unique ID	Associated Cement Segment	Install Status	Record Status	Compressive Strength (psi)	Weight (lbs/gal)	Slurry Consistency (Bu)	Lead/Tail
------------------------	---------------------------	----------------	---------------	----------------------------	------------------	-------------------------	-----------

* Indicates Required Field

Associated Cement Segment *
C3

Cement Type *
Class G Cement

Construction Status * ⓘ
Not Installed

Record Status
New

Compressive Strength (psi)
[Empty]

Weight (lbs/gal)
15.8

Slurry Consistency (Bu)
[Empty]

Lead/Tail
Single

Volume (Sacks)
100

Yield (cu ft per sack)
1.15

Description
100sk squeeze on OH interval from 8271-8320ft

Cancel Save

Cement Class X

* Indicates Required Field

Associated Cement Segment * <input type="text" value="C4"/>	Cement Type * <input type="text" value="Class G Cement"/>	Construction Status * ⓘ <input type="text" value="Not Installed"/>	
Record Status <input type="text" value="New"/>	Compressive Strength (psi) <input type="text"/>	Weight (lbs/gal) <input type="text" value="15.8"/>	Slurry Consistency (Bu) <input type="text"/>
Lead/Tail <input type="text" value="Single"/>	Volume (Sacks) <input type="text" value="50"/>	Yield (cu ft per sack) <input type="text" value="1.15"/>	

Description

Cement Class X

* Indicates Required Field

Associated Cement Segment * <input type="text" value="C4"/>	Cement Type * <input type="text" value="Class G Cement"/>	Construction Status * ⓘ <input type="text" value="Not Installed"/>	
Record Status <input type="text" value="New"/>	Compressive Strength (psi) <input type="text"/>	Weight (lbs/gal) <input type="text" value="15.8"/>	Slurry Consistency (Bu) <input type="text"/>
Lead/Tail <input type="text" value="Single"/>	Volume (Sacks) <input type="text" value="50"/>	Yield (cu ft per sack) <input type="text" value="1.15"/>	

Description

Cement Class X

* Indicates Required Field

Associated Cement Segment * **Cement Type *** **Construction Status * i**

Record Status **Compressive Strength (psi)** **Weight (lbs/gal)** **Slurry Consistency (Bu)**

Lead/Tail **Volume (Sacks)** **Yield (cu ft per sack)**

Description

Cement Class

Advanced Filtering Actions ⚙

Cement Class Unique ID	Associated Cement Segment ↑	Install Status	Record Status	Compressive Strength (psi)	Weight (lbs/gal)	Slurry Consistency (Bu)	Lead/Tail	Actions
L1	C3	Not Installed	New		15.8		Single	Actions
L2	C4	Not Installed	New		15.8		Single	Actions
L3	C4	Not Installed	New		15.8		Single	Actions
L4	C4	Not Installed	New		15.8		Single	Actions

Sundry Data – Adding a P&A Procedure


P&A procedures may be entered into the *Sundry Description* area. *Sundry Descriptions* are limited to 2000 characters. P&A procedures may also be attached as a document (explained in the next section).

- Procedures may be typed into the *Sundry Description* area.
- Procedures may be copied from another document and pasted into the *Sundry Description* area.

Sundry Description

1. Do One-Call prior to going to well. Notify NDIC 24 hours prior to commencing work. (Jon Rumppe@ 701-XXX-XXXX).
2. Prepare location for workover. MIRU pulling unit. Discuss scope of work to be performed at this time.
3. Dig out surface casing valve and bleed off.
4. Bleed off well through hot oil truck.
5. ND wellhead. NU BOP.
6. Trip in hole with 2 7/8" workstring, bit and scraper for 7" casing to ±8,050' (Cement retainer). Circulate well with clean, 10 ppg SW. Trip out of hole with tubing, bit, and scraper.
7. Rig up wireline unit. Run cement bond log from 8,050' to Top of Cement. Trip out of hole and rig down wireline unit.
8. Trip in hole with workstring and sling into retainer. Establish injection rate. Rig up cement equipment. Mix and pump 100 sks Class G cement. Squeeze 90 sks into formation and leave 10sks on CICR. Rig down cement equipment.
 - a. If unable to establish injection rate, spot 45sks class G cement on top of CICR.

Back Next Save




SundryDescription exceeds the maximum length of 2,000 characters.

Sundry Description

See attached procedure|

Back Next Save



Document Upload

Documents related to the sundry should be uploaded here. Documents will be available for download by any users that have permission to review the sundry.

Typical documents to include are a P&A procedure and current wellbore schematic (both required under NDAC 43-02-03-33).

To upload a document, select **[Actions]** and **[Add New]**:

- Select the *Type* of document from the dropdown menu (**[Diagram]**, **[Plugging Procedure]**, or **[Sundry Attachment]**).
- The *Relevant Date* in this case is the date the document is uploaded.
- Enter a brief *Description* of the document (e.g. 'Current Wellbore Diagram', 'Proposed P&A Diagram', 'P&A Procedure', etc).

Documents uploaded by the user may also be deleted by selecting **[Actions]** and **[Remove Document]**.

The screenshot shows a 'Document Upload' form with the following fields and annotations:

- Upload New Document** (radio button, selected) and **Associate Existing NorthSTAR Document** (radio button, unselected). A red arrow points to the selected radio button.
- Internal Only** (checkbox, unselected) and **Request Confidentiality** (checkbox, unselected).
- Category** dropdown menu with 'Well' selected.
- Type *** dropdown menu with 'Plugging Procedure' selected. A red arrow points to the selected text.
- Relevant Date *** date field with '01/24/2020' entered. A red arrow points to the date.
- Description *** text field with 'P&A Procedure' entered. A red arrow points to the text.
- Filename *** section containing a **Browse** button (with a red arrow pointing to it) and a **Done** button (with a checkmark).
- Below the filename section, a file icon and the filename **PA_PROCEDURE.PDF** are displayed.

At the bottom right of the form are **Cancel** and **Upload** buttons.

Select documents to be uploaded, if applicable. Click Add New and complete all required fields to upload a document.

Uploaded Documents

Advanced Filtering

Actions

Search



Upload Date ↓	Uploaded By	Type	Description	Filename	Actions
01/24/2020	John Smith	Plugging Procedure	P&A Procedure	PA_PROCEDURE.PDF	Actions
01/23/2020	John Smith	Existing Wellbore Schematic	Diagram	Schematic.PDF	Actions

Select documents to be uploaded, if applicable. Click Add New and complete all required fields to upload a document.

Uploaded Documents

Advanced Filtering

Actions

Search



Upload Date ↓	Uploaded By	Type	Description	Filename	Actions
01/24/2020	John Smith	Plugging Procedure	P&A Procedure	PA_PROCEDURE.PDF	Actions
01/23/2020	John Smith	Existing Wellbore Schematic	Diagram	Schematic.PDF	Actions

- View/Edit Document Details
- Remove Document

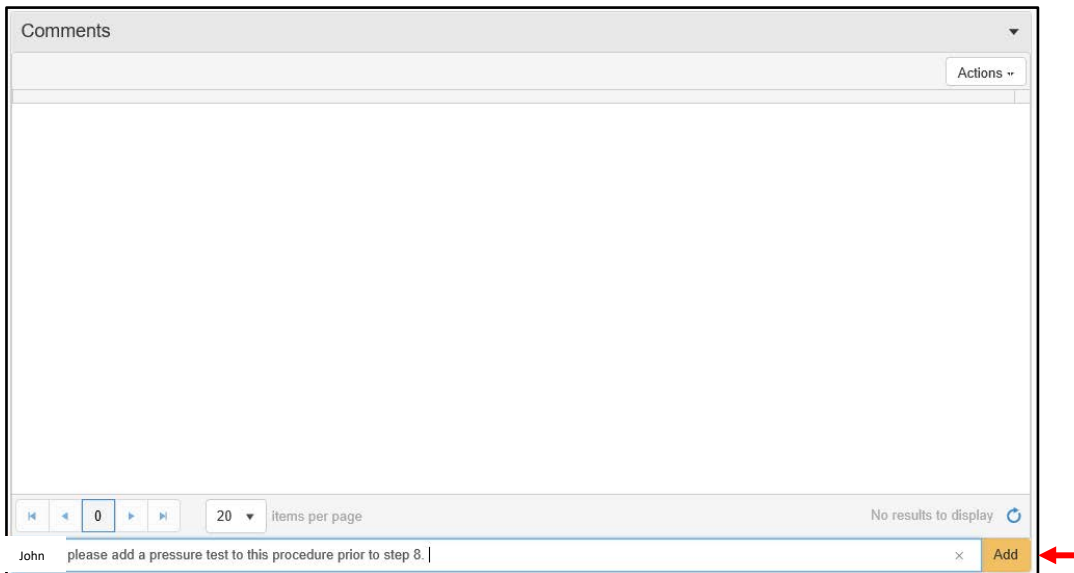
Form Submit – Comments, Acknowledgement, and Final Review

Users may add comments to the sundry and read reviewers' comments in the Comments section.

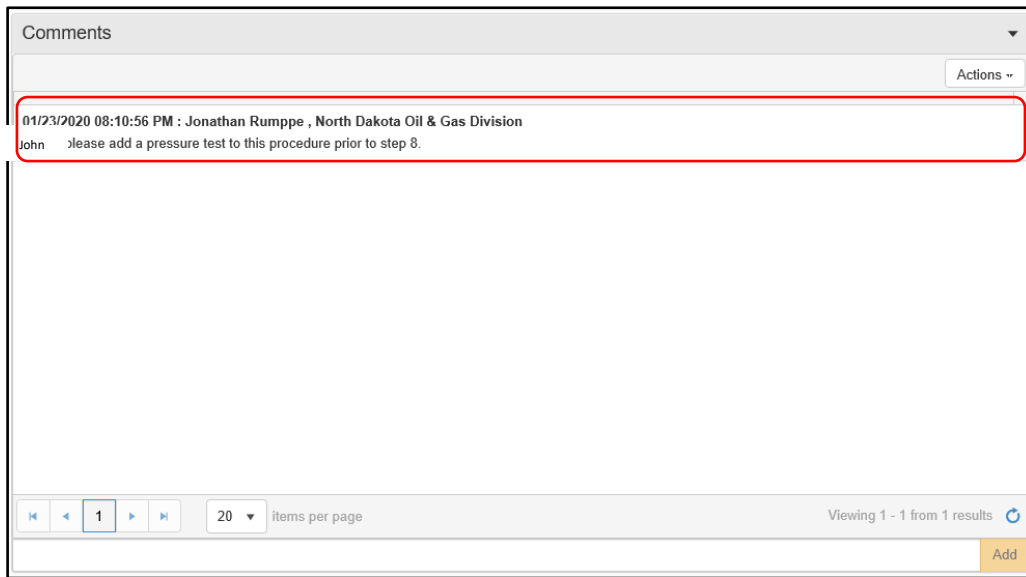
Users must eSign the sundry by clicking on the checkbox under the Acknowledgement subform.

Users may review the entire sundry by clicking on the *[Preview Submission Summary]* button.

By clicking on the *[Next]* button from this page, the user will submit the sundry. The user will not be able to file a sundry that has missing information in required fields.



The screenshot shows a 'Comments' section with a header bar containing 'Comments' and an 'Actions' dropdown. The main area is empty. At the bottom, there is a pagination bar with navigation arrows, a page number '0', '20' items per page, and the text 'No results to display'. Below the pagination bar, a comment entry is visible: 'John please add a pressure test to this procedure prior to step 8.' with a close button 'x' and an 'Add' button. A red arrow points to the 'Add' button.



The screenshot shows the same 'Comments' section, but now with one comment entry displayed: '01/23/2020 08:10:56 PM : Jonathan Rumppe , North Dakota Oil & Gas Division' followed by 'John please add a pressure test to this procedure prior to step 8.'. The entire comment entry is enclosed in a red rectangular box. The pagination bar at the bottom shows '1' as the current page, '20' items per page, and 'Viewing 1 - 1 from 1 results'. An 'Add' button is visible at the bottom right.

Acknowledgement

Submitter

John Smith

Submitter Title *

Owner

Date Received

01/23/2020



I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete. *

Form Submit Preview

Click the button below to preview your submission summary.

Preview Submission Summary