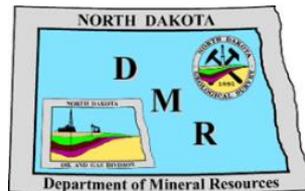


NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES: NorthSTAR

January 2019



Visit Us: www.dmr.nd.gov

Agenda

- Introduction
- What is NorthSTAR?
- Project Schedule
- Demonstration
- Next Steps



NORTH DAKOTA DEPARTMENT OF MINERAL RESOURCES

Introduction



Introduction

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

Michael Ziesch – Project Sponsor, DMR

Katie Haarsager – Organizational Change Management Lead, DMR

Jay Ziegler – Lead Architect, Solution Provider

Correna Hula – Project Manager, Solution Provider

Dan Jarvis – Ground Water Protection Council



NorthSTAR

What is NorthSTAR?



What is NorthSTAR?

NorthSTAR - North Dakota Statewide Tracking And Reporting System is the branding of the Ground Water Protection Council's well management system – Risk Based Data Management System (RBDMS) Sponsored by the US Department of Energy

NorthSTAR will be used by North Dakota operators and regulators. It is a cloud based application designed to help manage information by streamlining operations, simplifying processes, providing a better way for Operators and Division to collaborate, collect and analyze data.



Project Purpose and Objectives

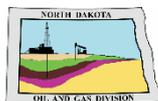
- Purpose

- To upgrade the agency's legacy information management system. It will include several resource saving components including electronic form acceptance to save manual data entry.



- Objectives

- Improve reporting
- Improve processes
- Allow for electronic form submission
- Allow for more data gathering and analysis

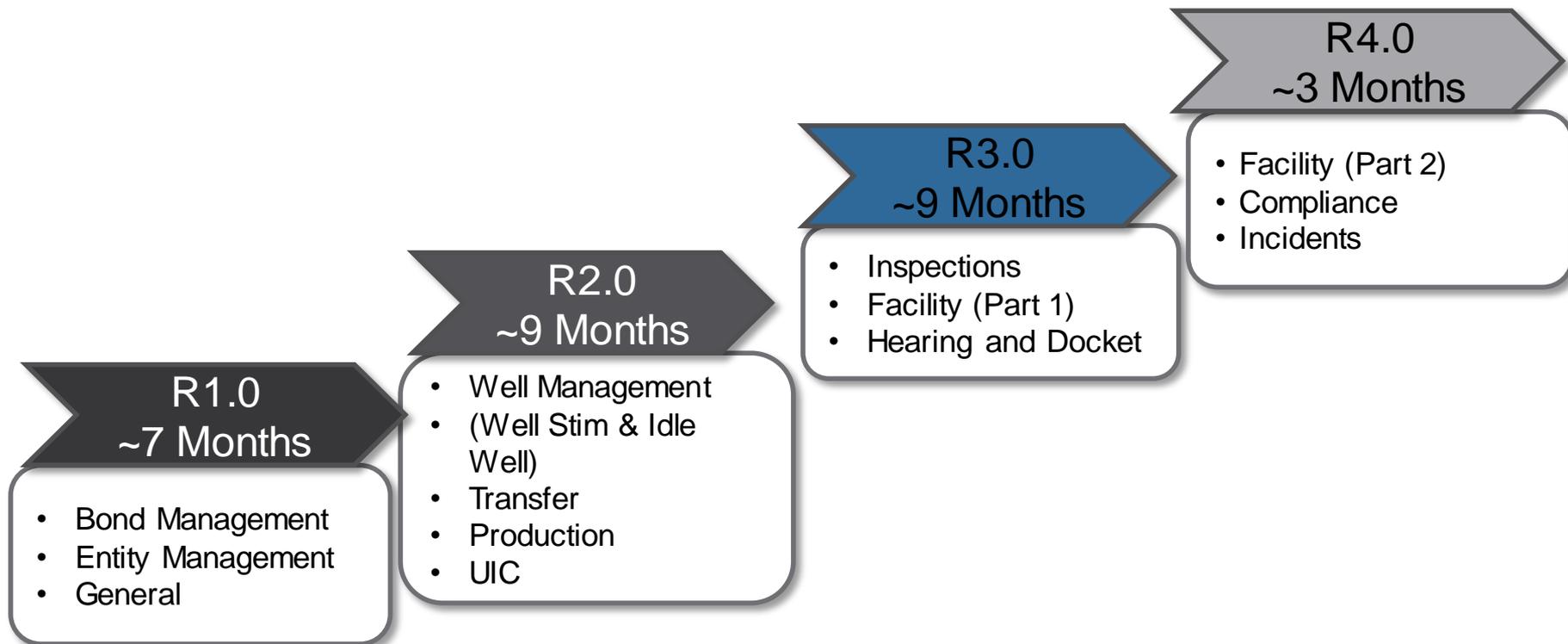


NorthSTAR

Project Schedule



Project Schedule



NorthSTAR

Demonstration



NorthSTAR Demonstration

- Entity Management
 - Operator data is entered in RBDMS
 - Operator submits form to identify an Administrator
 - The Administrator will manage permissions within the operator company
 - DMR will establish RBDMS permissions for the Administrator
 - Operator Administrator manages operator contact information in RBDMS

The screenshot displays the 'Organization Questionnaire' form within the NorthSTAR RBDMS interface. The page header includes the North Dakota Oil & Gas Division logo, a 'Well API' search bar, and navigation tabs for 'Explore Data', 'Forms', 'Tools', 'Maps', and 'Dev Utils'. The user is identified as 'Hello Richard A. Suggs, North Dakota Oil & Gas Division'. The form is titled 'Organization Questionnaire' and features a 'Form Navigation' sidebar with a '1. Form Information' section. The main form area contains the following fields and controls:

- Form Information** (Header)
- Please enter information below.** (Instruction)
- Form Name**: Organization Questionnaire
- Do you currently operate, or intend to operate oil and gas wells or facilities in North Dakota?**: Radio buttons for 'Yes' (selected) and 'No'.
- Description***: Text area containing 'Organization Questionnaire'.
- Buttons**: 'Cancel' and 'Save & Continue'.

Footnote: © 2018 - North Dakota RBDMS - 3.1.0-1.0.1 - 20190109-040523 | Privacy Policy
01/09/2019 14:58:54





Home

[Help](#)

[Alerts](#) [Online Forms](#) [Forms In Progress](#) [Forms Submitted](#) [My Organization](#)

[Advanced Filtering](#) [Actions](#)

<input type="checkbox"/>	Date ↓	Severity	Message	Status	Actions
--------------------------	--------	----------	---------	--------	---------



Org Code



Organization Questionnaire

Help

Form Navigation

1. Form Information

Form Information

[Hide Form Navigation]

Please enter information below.

* Indicates required field

Form Name

Organization Questionnaire

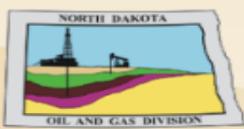
Do you currently operate, or intend to operate oil and gas wells or facilities in North Dakota?

Yes No

Description *

Cancel

Save & Continue



Organization Questionnaire

Help

Form ID: 48

Form Navigation

- 1. Form Information
- 2. Organization**
- 3. People
- 4. Document Upload
- 5. Form Submit
- 6. Confirmation
- 7. Review Comments
- 8. Reviewer Fields
- 9. Review

Organization [Hide Form Navigation]

Enter information related to the Organization below. * Indicates required field

Type of Organization *

Name *

Short Name

Web Address

Role(s)

Organization Addresses ▶

Organization Phone Numbers ▶

Organization Email Addresses ▶

Associated Organizations ▶

Back Next Save



Organization Questionnaire

Help

Form ID: 48

Form Navigation

- 1. Form Information
- 2. Organization**
- 3. People
- 4. Document Upload
- 5. Form Submit
- 6. Confirmation
- 7. Review Comments
- 8. Reviewer Fields
- 9. Review

Organization [Hide Form Navigation]

Enter information related to the Organization below. * Indicates required field

Type of Organization *

Corporation

Name *

Smith & Co Oil & Gas

Short Name

S&C Oil & Gas

Web Address

Smith&Co.com

Role(s)

DrillingCo X

Organization Addresses

Actions

Type	Address	Primary	Actions



Organization Questionnaire

Help

Form ID: 48

Form Navigation

- 1. Form Information
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- 9. Review

Organization [Hide Form Navigation]

Enter information related to the Organization below.

* Indicates required field

Type of Organization *

Corporation

Name *

Smith & Co Oil & Gas

Short Name

S&C Oil & Gas

Web Address

Smith&Co.com

Role(s)

DrillingCo X

Organization Addresses

Type	Address	Primary	Actions
			<input type="button" value="Add Address"/>



Organization Questionnaire

Form ID: 48

- 1. Form Information
- 2. Organization
- 3. People
- 4. Document Upload
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- 7. Review Comments
- 8. Reviewer Fields
- 9. Review

Person Info [Hide Form Navigation]

* Indicates required field

Person Already Exists in RBDMS

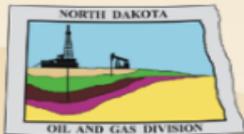
 Person Does Not Exist in RBDMS

Find Person *

Relationship Types *

 Relationship Attributes

 RBDMS User Admin



Organization Questionnaire

Help

Form ID: 48

Form Navigation

- 1. Form Information
- 2. Organization ✓
- 3. People ✓
- 4. Document Upload**
- 5. Form Submit
- 6. Confirmation
- 7. Review Comments
- 8. Reviewer Fields
- 9. Review

Document Upload [Hide Form Navigation]

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	Descripti...	Filename	Size	Actions

Back Next Save



Organization Questionnaire

Help

Form ID: 48

Form Navigation

Document Upload

[Hide Form Navigation]

- 1. Form Information
- 2. Organization ✓
- 3. People ✓
- 4. Document Upload
- 5. Form Submit
- 6. Confirmation
- 7. Review Comments
- 8. Reviewer Fields
- 9. Review

Document Upload ✕

* Indicates required field

Category
Organization

Type *

Relevant Date * ?

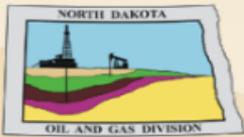
Description *

All comments are discoverable records, open to public review.

Filename * ?

and complete all required fields to upload a

Filename	Size	Actions
		Actions



Organization Questionnaire

Help

Form ID: 48

Form Navigation

- 1. Form Information
- 2. Organization ✓
- 3. People ✓
- 4. Document Upload ✓
- 5. Form Submit**
- 6. Confirmation
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- 9. Review

Form Submit

[Hide Form Navigation]

Associate related online form submissions to this submission by entering the Form ID or Form Description.

Comments

Acknowledgement

Submitter

Date Received

1/14/2019

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

Back Submit Save



Organization Questionnaire

Form ID: 58

- 1. Form Information
- 2. Organization
- 3. People
- 4. Document Upload
- 5. Form Submit
- 6. Confirmation**
- 7. Review Comments
- 8. Reviewer Fields
- 9. Review

Confirmation

Your Organization Questionnaire form 58 has been submitted successfully. Once approved, an email providing initial login instructions will be sent to newly created North Dakota RBDMS users.

NorthSTAR

Data Entry Methods



Data Entry Methods

- Manual Forms
(Internal/External Users)
 - HTML replacing most PDF
 - Initial Validation
 - Feedback on form status
- Bulk Upload
(XML option)
 - Initial Validation
 - Feedback on form status
 - Ability to partially accept form data
 - Return error records to operator



Fixing Validation Errors or Warnings

- The user can manually fix errors on each record, or
- The user can resubmit the file (previously submitted data will be replaced).

Status	Validation	Actions
✘	Errors and/or Warnings on row	Actions ▼
⚠	Warning: Amendment to previous data	Actions ▼
✘	Error: Invalid Source of Wat...	Actions ▼
✘	Errors and/or Warnings on row	Actions ▼
✘	Error: Invalid Kind of Water...	Actions ▼



Actions ▼

Edit Data
Remove Well

Edit Data

Field Disposition Data

Error: Invalid Gas Blown to Air
Warning: Amendment to previous data

All fields are required

Field Name	Field Code	District
Aliso Cany... ▼	2413 ▼	1
Oil Used in Oil & Gas Operations (bb1)	Gas Used in Oil & Gas Operations (Mcf)	Gas Blown to Air (Mcf)
<input type="text"/>	<input type="text"/>	<input type="text"/>

Cancel Save



NorthSTAR

Next Steps



NorthSTAR Next Steps

- Project Updates Sign Up
 - Sign up to receive important updates about the project
- Check For Updates
 - <https://www.dmr.nd.gov/oilgas/northstar.asp>
- Operator Feedback
 - Your feedback is valuable to us
- Impact on Business Process
 - Prepare for the impact on your business process and how data is reported to DMR



**NORTH DAKOTA
DEPARTMENT OF MINERAL RESOURCES**

CONTACT US

**600 East Boulevard Ave. – Dept. 405
Bismarck, ND 58505**

Phone: 701.328.8020

Email: oilandgasinfo@nd.gov



www.dmr.nd.gov