



Department of  
Conservation



WellSTAR

9/1/2016

ONLINE FORMS DISCUSSION

# Agenda

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- Dynamic Forms Considerations
- Technical Solution Options
- Technical Solution Options – Pros & Cons
- Solution Overview
- Dynamic Forms

# Dynamic Forms Considerations

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- Problems to Solve
  - Reduce Form Design and Development Time
  - Allow Authorized Business Users to Update Form Content (near real-time)
  - Support Configurable Rules & Workflows
  - Maximize Form Reuse from State to State
- Problems to Avoid
  - High Development & Maintenance Costs
  - Limited Access to Support Resources
  - Technology Obsolescence

# Technical Solution Options

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- Native Microsoft .NET MVC
  - Standards Based & Tested
  - Native MVC Page Life Cycle
  
- Custom .NET Form Engine
  - Custom Design & Code
  - Custom Page Life Cycle

# Technical Solution Options – Pros

Native Microsoft .NET MVC	Custom .NET UI
Highly Flexible & Feature Rich Web Page Design Capabilities	Less HTML Coding
Lower Development & Maintenance Costs for Complex Forms	Lower Development & Maintenance Costs for Simple Forms
Standards Based & Tested Framework	Single Code Base for Page Rendering & Processing
Easier and More Robust Integration with Business Rules and Workflow	Enhanced Flexibility for Real-time Form Display/Content Changes
Higher Application Performance	Reduced Reliance on IT Staff for Basic Form Design & Development
Broad Support by Microsoft, Third Party Solutions, and the .NET Development Community	
Greater Support for Automated Testing	
Increased Opportunity for Form Reuse from State to State	

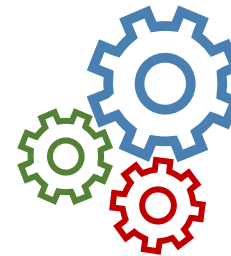
# Technical Solution Options – Cons

Native Microsoft .NET MVC	Custom .NET UI
Variable Design & Code Time per Form	Higher Development & Maintenance Costs for Custom Dynamic Forms Code Base
Dependency on .NET Developers for Form Design and Development	Dependency on Skilled Staff to Support Custom Dynamic Forms Code Base
Reduced Flexibility for Real-Time Form Display/Content Changes	Complex and Limited Integration with Business Rules and Workflows
More HTML Coding	Limited HTML Design & Third Party Integration Capabilities
	Reduced Application Performance
	Susceptible to Technology Obsolescence
	Limited Microsoft and .NET Development Community Support
	Limited Form Reuse from State to State

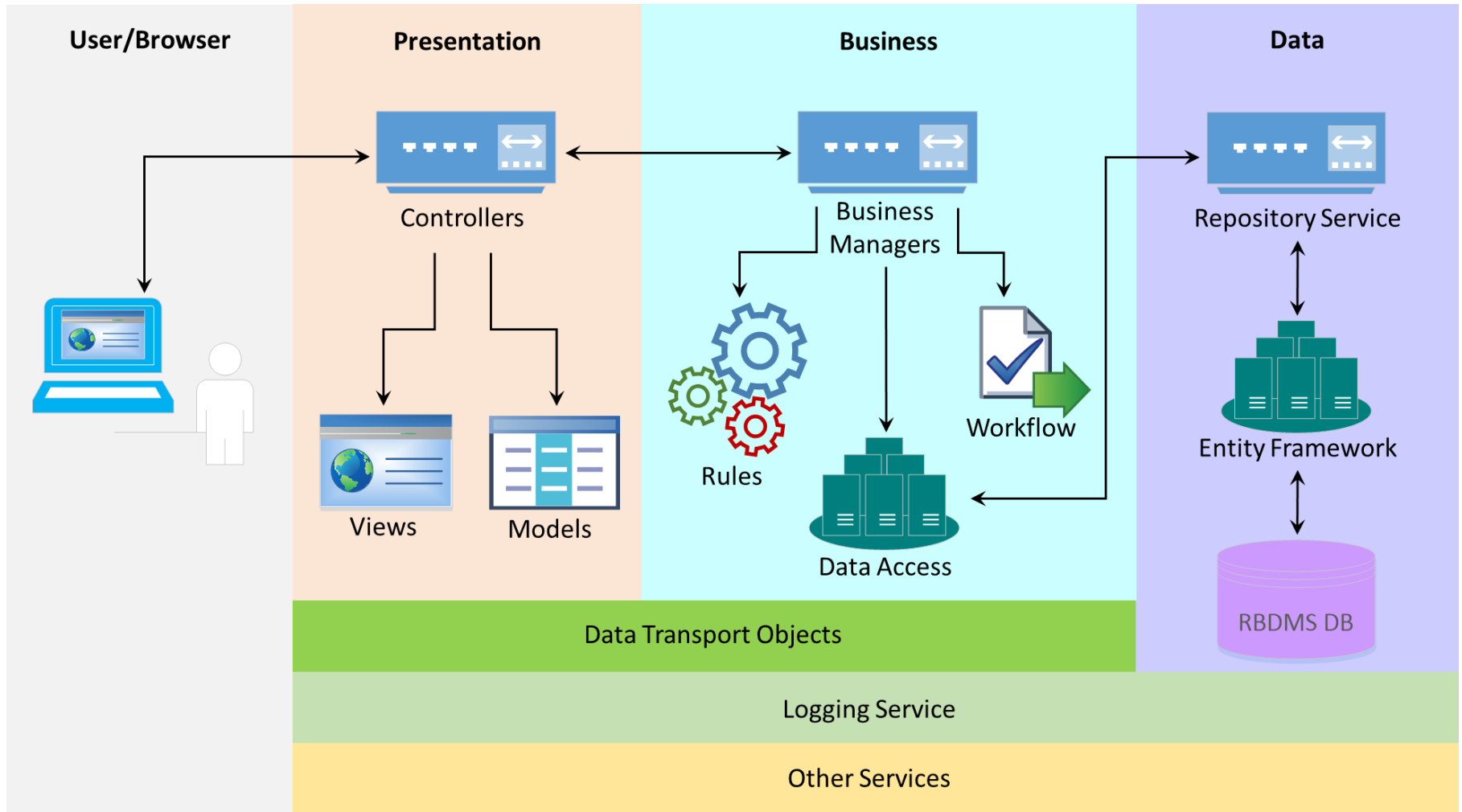
# Technical Solution Options – Preferred

## Native Microsoft .NET MVC

- ✓ Broad Support by Microsoft, Third Party Solutions, and the .NET Development Community
- ✓ Lower Development & Maintenance Costs for Complex Forms
- ✓ Increased Opportunity for Form Reuse from State to State



# Technical Solution – Application Tiers





# Native Microsoft .NET MVC - Dynamic and/or Configurable Elements

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Presentation	Business	Data
Web Page Labels, Text, Pre-Defined Content	Rules	Repository Type
Web Page Logo, Fonts, Colors, & other Style Properties	Workflow	Configuration Settings
Form Validation & Display Formatting	PDF Form Rendering	
Form Sections & Display Order	Configuration Settings	
Configuration Settings		

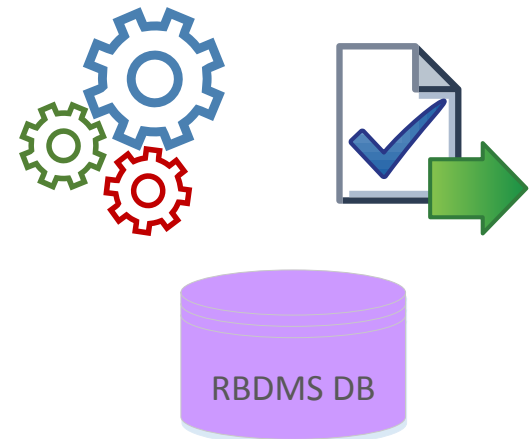
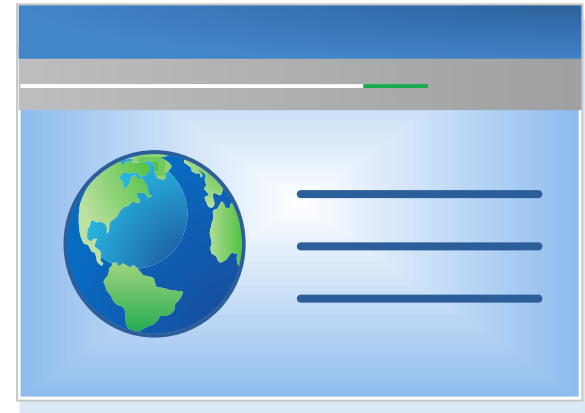
# Native Microsoft .NET MVC – Static Elements

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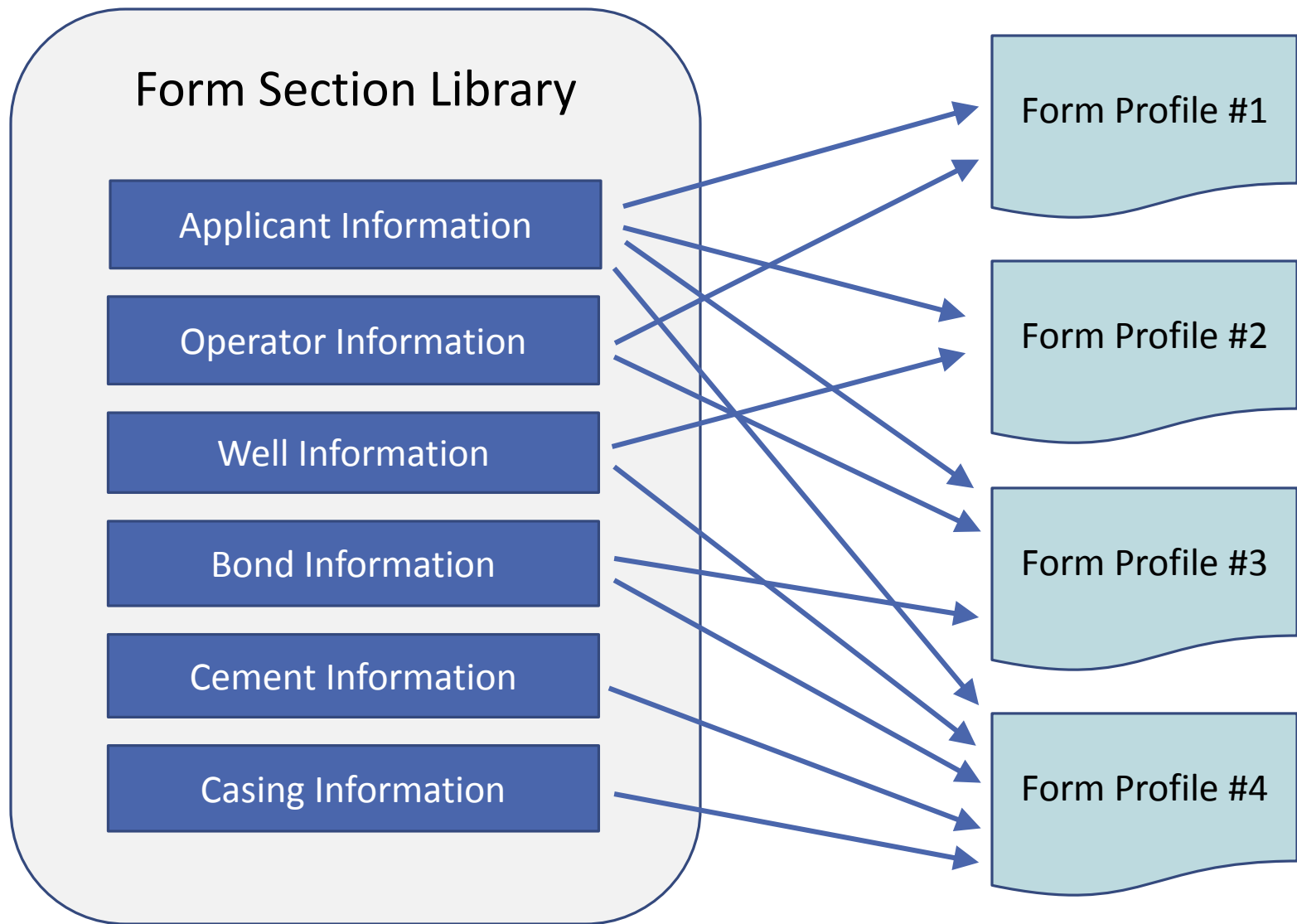
Presentation	Business	Data
Web Page Client Code – HTML, Javascript, etc.	Rule Processing Engine	Data Access Framework
Web Page Server Code – Models, Controllers, etc.	Workflow Processing Engine	Microsoft .NET Framework
Microsoft .NET & MVC Framework	PDF Rendering Engine	
Third Party Web Control Software	Microsoft .NET Framework	

# Dynamic Forms & Native Microsoft .NET MVC

- Form Profile
  - Profile Name/ID
  - Rule Metadata
  - Workflow Metadata
  - Section (1 or more per Form)
    - Section Name/ID
    - MVC View
    - Display Order
    - Rule Metadata
    - Element (1 or more per Section)
      - Name/ID
      - Html Element Name
      - Value
      - Rule Metadata



# Form Profiles & Reusable Sections



# Profile/Section Example – Utah Permit to Drill

**Reset Form**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3  
AMENDED REPORT   
(highlight changes)

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**APPLICATION FOR PERMIT TO DRILL**

14. TYPE OF WORK: DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO.:	6. SURFACE: <input type="text"/>
8. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: _____	
2. NAME OF OPERATOR: _____		8. UNIT OF O.A. AGREEMENT NAME: _____	
3. ADDRESS OF OPERATOR: _____ PHONE NUMBER: _____		9. WELL NAME and NUMBER: _____	
4. LOCATION OF WELL (FOOTAGES): AT SURFACE: _____ AT PROPOSED PRODUCING ZONE: _____		10. FIELD AND POOL, OR WILDCAT: _____	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: _____		12. COUNTY: _____	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): _____	16. NUMBER OF ACRES IN LEASE: _____	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: _____	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): _____	19. PROPOSED DEPTH: _____	20. BOND DESCRIPTION: _____	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): _____	22. APPROXIMATE DATE WORK WILL START: _____	23. ESTIMATED DURATION: _____	

34. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT

35. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input type="checkbox"/> WELL PLAN OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(This space for State use only)

API NUMBER ASSIGNED: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

(11/2009) (See Instructions on Reverse Side)

1. Application Information
  - ✓ Type Info
  - ✓ Applicant Info
  - ✓ Attachments
  - ✓ Signature & Date
2. Operator Information
  - ✓ Name and Address
3. Well Information
  - ✓ Name
  - ✓ Location Info
  - ✓ Other Data
4. Casing Information
  - ✓ Size, Grade, etc.
5. Cement Information
  - ✓ Type, Quantity, Yield, etc.

# Profile/Section Example – Application Info

1

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3  
AMENDED REPORT   
(highlight changes)

**APPLICATION FOR PERMIT TO DRILL**

14. TYPE OF WORK: DRILL  REENTER  DEEPEN

8. TYPE OF WELL: OIL  GAS  OTHER \_\_\_\_\_ SINGLE ZONE  MULTIPLE ZONE

3. ADDRESS OF OPERATOR: \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ PHONE NUMBER: \_\_\_\_\_

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: \_\_\_\_\_  
AT PROPOSED PRODUCING ZONE: \_\_\_\_\_

10. FIELD AND POOL, OR WILDCAT: \_\_\_\_\_

11. QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN: \_\_\_\_\_

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: \_\_\_\_\_

12. COUNTY: \_\_\_\_\_ 13. STATE: UTAH

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): \_\_\_\_\_ 16. NUMBER OF ACRES IN LEASE: \_\_\_\_\_ 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: \_\_\_\_\_

18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): \_\_\_\_\_ 19. PROPOSED DEPTH: \_\_\_\_\_ 20. BOND DESCRIPTION: \_\_\_\_\_

21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): \_\_\_\_\_ 22. APPROXIMATE DATE WORK WILL START: \_\_\_\_\_ 23. ESTIMATED DURATION: \_\_\_\_\_

**34. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT

**35. ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

WELL PLAN OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  COMPLETE DRILLING PLAN

EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER  FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(This space for State use only)

API NUMBER ASSIGNED: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

(11/2009) (See Instructions on Reverse Side)

2

- Section #1
  - ✓ Type of Work
  - ✓ Type of Well
- Section #2
  - ✓ Attachments
- Section #3
  - ✓ Applicant Name
  - ✓ Applicant Title
  - ✓ Applicant Signature & Date

3

# Profile/Section Example – Operator Info

**Reset Form**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3  
AMENDED REPORT   
(highlight changes)

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**APPLICATION FOR PERMIT TO DRILL**

5. MINERAL LEASE NO: \_\_\_\_\_ 6. SURFACE: \_\_\_\_\_

7. IF INDIAN, ALLOTTEE OR TRIBE NAME: \_\_\_\_\_

8. TYPE OF WELL: OIL  GAS  OTHER \_\_\_\_\_ SINGLE ZONE  MULTIPLE ZONE

8. UNIT or O.A. AGREEMENT NAME: \_\_\_\_\_

9. WELL NAME and NUMBER: \_\_\_\_\_

3. NAME OF OPERATOR: \_\_\_\_\_

3. ADDRESS OF OPERATOR: \_\_\_\_\_ PHONE NUMBER: \_\_\_\_\_

10. FIELD AND POOL, OR WILDCAT: \_\_\_\_\_

11. QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN: \_\_\_\_\_

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: \_\_\_\_\_

12. COUNTY: \_\_\_\_\_ 13. STATE: UTAH

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): \_\_\_\_\_

16. NUMBER OF ACRES IN LEASE: \_\_\_\_\_

17. NUMBER OF ACRES ASSIGNED TO THIS WELL: \_\_\_\_\_

18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): \_\_\_\_\_

19. PROPOSED DEPTH: \_\_\_\_\_

20. BOND DESCRIPTION: \_\_\_\_\_

21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): \_\_\_\_\_

22. APPROXIMATE DATE WORK WILL START: \_\_\_\_\_

23. ESTIMATED DURATION: \_\_\_\_\_

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34. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT

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35. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input type="checkbox"/> WELL PLAN OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

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NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

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(This space for State use only)

API NUMBER ASSIGNED: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

(11/2009) (See Instructions on Reverse Side)

- Section #1
  - ✓ Name
  - ✓ Address
  - ✓ Phone Number

1

# Profile/Section Example – Well Info

**Reset Form**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT   
(highlight changes)

**APPLICANT FOR PERMIT TO DRILL**

14. TYPE OF WORK: DRILL  DEEPEN

15. TYPE OF WELL: OIL  GAS  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR: \_\_\_\_\_

3. ADDRESS OF OPERATOR: \_\_\_\_\_ PHONE NUMBER: \_\_\_\_\_

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: \_\_\_\_\_  
AT PROPOSED PRODUCING ZONE: \_\_\_\_\_

5. MINERAL LEASE NO.: \_\_\_\_\_ 6. SURFACE: \_\_\_\_\_

7. IF INDIAN, ALLOTTEE OR TRIBE NAME: \_\_\_\_\_

8. UNIT OF GA AGREEMENT NAME: \_\_\_\_\_

9. WELL NAME AND NUMBER: \_\_\_\_\_

10. FIELD AND POOL, OR WELDOCK: \_\_\_\_\_

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: \_\_\_\_\_

12. COUNTY: \_\_\_\_\_ 13. STATE: UTAH

16. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): \_\_\_\_\_

17. NUMBER OF ACRES APPLIED: \_\_\_\_\_

18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): \_\_\_\_\_

19. PROPOSED DEPTH: \_\_\_\_\_

20. BOND DESCRIPTION: \_\_\_\_\_

21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): \_\_\_\_\_

22. APPROXIMATE DATE WORK WILL START: \_\_\_\_\_

23. ESTIMATED DURATION: \_\_\_\_\_

**24. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, FIELD, AND SLURRY WEIGHT

**25. ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

WELL PLAN OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  COMPLETE DRILLING PLAN

EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER  FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(This space for State use only)

API NUMBER ASSIGNED: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

(11/2009) (See Instructions on Reverse Side)

- Section #1
  - ✓ Location
  - ✓ Name & Number
  - ✓ Other Info
- Section #2
  - ✓ Field & Pool
  - ✓ QTR/QTR, Section, Township, Range, Meridian
  - ✓ County & State
- Section #3
  - ✓ Proximity Distance & Acreage
- Section #4
  - ✓ Depth & Elevations
  - ✓ Bond Description
  - ✓ Approximate Start & Duration



# Profile/Section Example – Casing Info

**Reset Form**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3  
AMENDED REPORT   
(highlight changes)

---

**APPLICATION FOR PERMIT TO DRILL**

14. TYPE OF WORK: DRILL  REENTER  DEEPEN

5. MINERAL LEASE NO: \_\_\_\_\_ 6. SURFACE: \_\_\_\_\_

7. IF INDIAN, ALLOTTEE OR TRIBE NAME: \_\_\_\_\_

8. TYPE OF WELL: OIL  GAS  OTHER \_\_\_\_\_ SINGLE ZONE  MULTIPLE ZONE

8. UNIT OF O.A. AGREEMENT NAME: \_\_\_\_\_

2. NAME OF OPERATOR: \_\_\_\_\_ 9. WELL NAME and NUMBER: \_\_\_\_\_

3. ADDRESS OF OPERATOR: \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_ PHONE NUMBER: \_\_\_\_\_ 10. FIELD AND POOL, OR WILDCAT: \_\_\_\_\_

4. LOCATION OF WELL (FOOTAGES):  
AT SURFACE: \_\_\_\_\_  
AT PROPOSED PRODUCING ZONE: \_\_\_\_\_

11. QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN: \_\_\_\_\_

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: \_\_\_\_\_ 12. COUNTY: \_\_\_\_\_ 13. STATE: UTAH

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): \_\_\_\_\_ 16. NUMBER OF ACRES IN LEASE: \_\_\_\_\_ 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: \_\_\_\_\_

18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): \_\_\_\_\_ 19. PROPOSED DEPTH: \_\_\_\_\_ 20. BOND DESCRIPTION: \_\_\_\_\_

21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): \_\_\_\_\_ 22. APPROXIMATE DATE WORK WILL START: \_\_\_\_\_ 23. ESTIMATED DURATION: \_\_\_\_\_

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**24. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT PROPORTION, YIELD, AND SLURRY WEIGHT

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**25. ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

WELL PLAN OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  COMPLETE DRILLING PLAN

EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER  FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(This space for State use only)

API NUMBER ASSIGNED: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

(11/2009) (See Instructions on Reverse Side)

- Section #1
  - ✓ Hole Size
  - ✓ Casing Size, Grade & Weight (per foot)
  - ✓ Setting Depth



# Profile/Section Example – Cement Info

**Reset Form**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3  
AMENDED REPORT   
(highlight changes)

---

**APPLICATION FOR PERMIT TO DRILL**

14. TYPE OF WORK: DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO:	6. SURFACE: <input type="text"/>
8. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: _____	
2. NAME OF OPERATOR: _____		8. UNIT OF OIL AGREEMENT NAME: _____	
3. ADDRESS OF OPERATOR: _____ PHONE NUMBER: _____		9. WELL NAME AND NUMBER: _____	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: _____ AT PROPOSED PRODUCING ZONE: _____		10. FIELD AND POOL, OR WILDCAT: _____	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: _____		12. COUNTY: _____	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): _____	16. NUMBER OF ACRES IN LEASE: _____	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: _____	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): _____	19. PROPOSED DEPTH: _____	20. BOND DESCRIPTION: _____	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): _____	22. APPROXIMATE DATE WORK WILL START: _____	23. ESTIMATED DURATION: _____	

34. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT

35. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input type="checkbox"/> WELL PLAN OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

(This space for State use only)

API NUMBER ASSIGNED: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

(11/2009) (See Instructions on Reverse Side)

- Section #1
  - ✓ Cement Type
  - ✓ Quantity
  - ✓ Yield
  - ✓ Slurry Weight

