

NOGCC Modifications to RBDMS for Wellbore

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- Add SQL Server Login:

SQL Server authentication

Login name: wellbore

Password: w311b0r3

User Mapping: NE_RBDMS

Database role membership must be db_owner

- Modification to existing tables

tblRefCodes – add values to Tag column for Fld = 'CSG_STRING'

these values must be in the defined valid values for WellFeature.feature:

```
"SURE" = Surface Casing,  
"COND" = Surface Conductor,  
"INTER" = Intermediate Casing,  
"LINER" = Liner,  
"PROD" = Production Casing,  
"HOLE" = Hole,  
"BASK" = Basket,  
"PLUG" = Plug,  
"PACK" = Packer,  
"TUBING" = Tubing,  
"BRIDGE" = Bridge Plug,  
"CIBP" = Cast Iron Bridge Plug,  
"CR" = Cement Retainer,  
"UNK" = Unknown,  
"CEN" = Centralizer
```

Use tblGeoMapSymbols to contain USGS sedimentary, metamorphic, igneous and vein-matter lithology patterns as outlined in FDC-STD-013-2006

Use tblGeoLithCodes to contain descriptions for the tblGeoMapSymbols

This will make setting of the lithology codes available through the access front end through Forms Menu>Subsurface Geology>Geologic Formations. The Map Cd field and the Litho-Type field represent these values.

The previously unused Industry Cd field (IndFrm_Cd) in tblGeoFmtn has been repurposed to hold the Stratigraphic Age Code. This code defines the color used to “paint” the background of the lithology patterns displayed on the wellbore diagram. Valid values are defined in FGDC-STD-013-2006.

ADMIRE GROUP	
State Cd	ADMIRE
AAPG Cd	ADMIRE
Industry Cd	4A
Map Cd	64
DOG Cd	
Div. Mines Cd	
Name	ADMIRE GROUP
Alias Name 1	
Alias Name 2	
Alias Name 3	
Litho-Type	Dolomite
Fill Symbol	
PERMIAN. ADMIRE A, B, C. ANHYDRITES AND DOLOMITES	
Litho-comment	

AMAZON DOLOMITE	
State Cd	AMAZON
AAPG Cd	AMAZON
Industry Cd	40A
Map Cd	642
DOG Cd	
Div. Mines Cd	
Name	AMAZON DOLOMITE
Alias Name 1	
Alias Name 2	
Alias Name 3	
Litho-Type	Dolomite
Fill Symbol	
PERMIAN	
Litho-comment	

ARBUCKLE	
State Cd	ARBUCKLE
AAPG Cd	ARBUCKLE
Industry Cd	A51
Map Cd	642
DOG Cd	
Div. Mines Cd	
Name	ARBUCKLE
Alias Name 1	
Alias Name 2	
Alias Name 3	
Litho-Type	Dolomite
Fill Symbol	
Litho-comment	

- Modification to existing forms

Add a new button named cmdSchematic to Form Menu>Well Master Info>Well Master to display wellbore from inside RBDMS.

The following code needs to be inserted as command code for this button:

```
Private Sub cmdSchematic_Click()
    Dim ctl As CommandButton
    On Error GoTo ProcErr
    Set ctl = Me!cmdSchematic
    With ctl
        .HyperlinkAddress = "http://???.wellbore/wellborecanvas.htm?apiNo=" &
gNav.API_WellNo
        On Error Resume Next
        .Hyperlink.Follow
    End With
End Sub
```

```

If Err.Number <> 0 Then
    MsgBox "Schematic not available for API # " & gNav.API_WellNo
    Err.Clear
End If
On Error GoTo ProcErr
.HyperlinkAddress = ""
End With
procExit:
    Exit Sub
ProcErr:
    ErrMsg ("cmdSchematic_Click")
    Resume procExit
End Sub

```

- Add Scalar functions to facilitate look up of defintions and values used in translation:

`fncLookUpCode(string Fld, string Code)`

Function returns Definition from tblRefCodes for a given Fld and a given Code.

```

USE [NE_RBDMS]
GO

/***** Object: UserDefinedFunction [dbo].[fncLookUpCode]
Script Date: 01/03/2011 14:15:50 *****/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

```

```

-- =====
-- Author:          Chuck Borchert
-- Create date:    5/4/2007
-- =====
CREATE FUNCTION [dbo].[fncLookUpCode] (@FLD varchar(10),
@Code varchar(50))
RETURNS varchar(50) AS
BEGIN
declare @descrip varchar(50)
set @descrip = (select tblrefcodes.Definition from
tblrefcodes where fld = @fld and code = @code)
return (@descrip)
END

```

GO

[fncLookUpFmtn\(string AAPG_Cd\)](#)

Function returns Name_ from tblGeoFmtn for a given AAPG_Cd.

```

USE [NE_RBDMS]
GO

/***** Object:  UserDefinedFunction [dbo].[fncLookUpFmtn]
Script Date: 01/03/2011 14:06:02 *****/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

```

```

-- =====
-- Author:          Chuck Borchert
-- Create date:    1/3/2011
-- =====
CREATE FUNCTION [dbo].[fncLookUpFmtn] (@Code varchar(8))
RETURNS varchar(40) AS
BEGIN
declare @descrip varchar(40)
set @descrip = (select tblGeoFmtn.Name_ from tblGeoFmtn
where AAPG_Cd = @code)
return (@descrip)
END

```

GO

[fncLookUpTag\(string Fld, string Code\)](#)

Function returns Definition from tblRefCodes for a given Fld and a given Code.

```

USE [NE_RBDMS]
GO

/***** Object:  UserDefinedFunction [dbo].[fncLookUpTag]
Script Date: 01/03/2011 14:16:30 *****/
SET ANSI_NULLS ON

```

```

GO

SET QUOTED_IDENTIFIER ON
GO

-- =====
-- Author:          Chuck Borchert
-- Create date:    1/3/2011
-- =====
CREATE FUNCTION [dbo].[fncLookUpTag] (@FLD varchar(10),
@Code varchar(50))
RETURNS varchar(150) AS
BEGIN
declare @descrip varchar(150)
set @descrip = (select tblRefCodes.Tag from tblRefCodes
where fld = @fld and code = @code)
return (@descrip)
END

GO

```

[fncProducingFmtnTop\(string API_WellNo\)](#)

Function returns Top of the first producing zone from tblGeoFmtnTops for a given API_WellNo. Returns NULL if no producing zone is found.

```

USE [NE_RBDMS]
GO

/***** Object:  UserDefinedFunction
[dbo].[fncProducingFmtnTop]      Script Date: 01/03/2011
14:16:51 *****/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

-- =====
-- Author:          Chuck Borchert
-- Create date:    12/22/2010
-- =====
CREATE FUNCTION [dbo].[fncProducingFmtnTop] (@API
varchar(14))
RETURNS int AS
BEGIN
declare @Top int
set @Top = (SELECT TOP 1 dbo.tblGeoFmtnTops.Top_ FROM
dbo.tblGeoFmtnTops WHERE (dbo.tblGeoFmtnTops.API_WellNo =
@API AND dbo.tblGeoFmtnTops.Producing = 1))
return (@Top)
END

GO

```

[fncTargetFmtn\(string API_WellNo\)](#)

Function returns Fmtn_Cd of the first producing zone from tblGeoFmtnTops for a given API_WellNo. Returns NULL if no producing zone is found.

```
USE [NE_RBDMS]
GO

/***** Object: UserDefinedFunction [dbo].[fncTargetFmtn]
Script Date: 01/03/2011 14:09:25 *****/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

-- =====
-- Author:      Chuck Borchert
-- Create date: 1/3/2011
-- =====
CREATE FUNCTION [dbo].[fncTargetFmtn] (@API varchar(14))
RETURNS varchar(8) AS
BEGIN
declare @Fmtn varchar(8)
set @Fmtn = (SELECT TOP 1 dbo.tblGeoFmtnTops.Fmtn_Cd FROM
dbo.tblGeoFmtnTops WHERE (dbo.tblGeoFmtnTops.API_WellNo =
@API AND dbo.tblGeoFmtnTops.Producing = 1))
return (@Fmtn)
END

GO
```