class AWWID

WELLS
«column»
*PK Well_ID: int
FK Drilling_Company_ID: int
* GIC_Well_ID: int
GOA_Well_Tag_Number: nvarchar(7)
GOWN_ID: int
Longitude: decimal(22,8)
Latitude: decimal(22,8)
Elevation: decimal(22,8)
GPS_Obtained: nvarchar(50)
Elevation_Obtained: nvarchar(50)
Boundary_From: nvarchar(50)
Distance_North: decimal(18,6)
Distance_South: decimal(18,6)
Distance_East: decimal(18,6)
Distance_West: decimal(18,6)
LSD: nvarchar(2)
Section: nvarchar(2)
Township: nvarchar(3)
Range: nvarchar(2)
Meridian: nvarchar(1)
Lot: nvarchar(5)
Block: nvarchar(3)
Plan: nvarchar(7)
Additional_Description: nvarchar(255)
Validated_Flag: bit
Submitted_Flag: bit
Location_Locked_Flag: bit
Create_Timestamp: datetime
Update_Timestamp: datetime
«FK»
+ Drilling_Company_ID(int)
«PK»
+ Well_ID(int)

CHEMICAL_ANALYSIS
«column»
*PK Chemical_Analysis_ID: int
*FK Well_ID: int
Sample_Number: nvarchar(7)
Sample_Date: datetime
Analysis_Date: datetime
Laboratory: nvarchar(50)
Water_Level: decimal(18,6)
Aquifer: nvarchar(20)
Remarks: nvarchar(151)
Create_Timestamp: datetime
Update_Timestamp: datetime
FK Well_Report_ID: int
«PK»
+ Chemical_Analysis_ID(int)
«FK»
+ Well_ID(int)
+ Well_Report_ID(int)

ANALYSIS_ITEMS
«column»
*pfK Element_ID: int
*pfK Chemical_Analysis_ID: int
* Value: decimal(18,6)
Create_Timestamp: datetime
Update_Timestamp: datetime
«FK»
+ Chemical_Analysis_ID(int)
+ Element_ID(int)
«PK»
+ Element_ID_Chemical_Analysis_ID(int, int)

ELEMENTS
«column»
*PK Element_ID: int
* Element_Name: nvarchar(50)
* Element_Symbol: nvarchar(10)
Create_Timestamp: datetime
Update_Timestamp: datetime
Decimal_Places: int
«PK»
+ Element_ID(int)

WELL_REPORTS
«column»
*PK Well_Report_ID: int
*FK Well_ID: int
*FK Well_Owner_ID: int
FK Driller_ID: int
FK Drilling_Company_ID: int
Driller_Instance_ID: int
Date_Received: datetime
Drilling_Method: nvarchar(50)
Type_of_Work: nvarchar(50)
Plug_Date: datetime
Plug_Material_Type: nvarchar(50)
Plug_Material_Amount: decimal(18,6)
Plugged_Units: nvarchar(50)
Existing_Well_ID: int
Well_Use: nvarchar(50)
Other_Well_Use: nvarchar(255)
Total_Depth_Drilled: decimal(18,6)
Finished_Well_Depth: decimal(18,6)
Drilling_Start_Date: datetime
Drilling_End_Date: datetime
Casing_Material: nvarchar(50)
Casing_OD: decimal(18,6)
Casing_Thickness: decimal(18,6)
Casing_Bottom: decimal(18,6)
Liner_Material: nvarchar(50)
Liner_OD: decimal(18,6)
Liner_Thickness: decimal(18,6)
Liner_Top: decimal(18,6)
Liner_Bottom: decimal(18,6)
Perforation_By: nvarchar(50)
Annular_Seal_Material: nvarchar(50)
Annular_Seal_From: decimal(18,6)
Annular_Seal_To: decimal(18,6)
Annular_Seal_Amount: decimal(18,6)
Annular_Seal_Units: nvarchar(50)
Screen_Material: nvarchar(50)
Screen_Size_OD: decimal(18,6)
Screen_Attachment: nvarchar(50)
Screen_Top_Fittings: nvarchar(50)
Screen_Bottom_Fittings: nvarchar(50)
Pack_Type: nvarchar(50)
Pack_Grain_Size: nvarchar(50)
Pack_Amount: decimal(18,6)
Pack_Units: nvarchar(50)
Location_Verification_Method: nvarchar(50)
Distance_Casing_Ground: decimal(18,6)
Artesian_Flow_Flag: bit
Artesian_Flow_Rate: decimal(18,6)
Encounter_Saline_Water_Flag: bit
Saline_Water_Depth: decimal(18,6)
Gas_Depth: decimal(18,6)
Encounter_Gas_Flag: bit
Remedial_Action: nvarchar(255)
Flow_Control_Installed_Flag: bit
Flow_Control_Description: nvarchar(255)
Recommended_Rate: decimal(18,6)
Recommended_Intake_Depth: decimal(18,6)
Pump_Installed_Flag: bit
Pump_Installed_Depth: decimal(18,6)
Pump_Type_Installed: nvarchar(50)
Pump_Model: nvarchar(50)
Pump_Horsepower: nvarchar(10)
Well_Disinfected: bit
Other_Log: nvarchar(255)
Potability_Sample_Taken_Flag: bit
Potability_Sample_Sent_to_AENV_Flag: bit
Diverted_Water_Source: nvarchar(255)
Diverted_Water_Amount: decimal(18,6)
Diversion_Date_Time: datetime
CreatedBy: uniqueidentifier
IsSubmitted: bit
Submitted_By: uniqueidentifier
IsValidated: bit
Additional_Comments: nvarchar(4000)
Create_Timestamp: datetime
Update_Timestamp: datetime
Approval_Holder_Signature_Date: datetime
Drilling_Report_Given_To_Owner: bit
Model_Output_Rating: nvarchar(50)
Drilling_Company_Well_ID: nvarchar(64)
«FK»
+ Driller_ID(int)
+ Drilling_Company_ID(int)
+ Well_ID(int)
+ Well_Owner_ID(int)
«PK»
+ Well_Report_ID(int)

BOREHOLES
«column»
*FK Well_Report_ID: int
*PK BoreHole_ID: int
* Diameter: decimal(18,6)
* From: decimal(18,6)
* To: decimal(18,6)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ BoreHole_ID(int)
«FK»
+ Well_Report_ID(int)

DRILLING_COMPANIES
«column»
*PK Drilling_Company_ID: int
Company_Name: nvarchar(60)
Street_Address: nvarchar(40)
City: nvarchar(20)
Province: nvarchar(17)
County: nvarchar(50)
Postal_Code: nvarchar(7)
e_Mail: nvarchar(50)
GWRIS_ID: nvarchar(5)
Is_Active_Flag: bit
Starting_Well_ID: nvarchar(7)
Ending_Well_ID: nvarchar(7)
Last_Well_ID_Used: nvarchar(7)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Drilling_Company_ID(int)

GEOPHYSICAL_LOGS
«column»
*PK Geophysical_Log_ID: int
*FK Well_Report_ID: int
* Log_Type: nvarchar(50)
Log_Taken_Flag: bit
Sent_to_AENV_Flag: bit
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Geophysical_Log_ID(int)
«FK»
+ Well_Report_ID(int)

GEOPHYSICAL_LOG_ATTACHMENTS
«column»
*PK Geophysical_Log_Attachment_ID: int
*FK Geophysical_Log_ID: int
* Data: varbinary(max)
* Mimetype: varbinary(max)
Name: varbinary(max)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Geophysical_Log_Attachment_ID(int)
«FK»
+ Geophysical_Log_ID(int)

DRILLER_DRILLING_COMPANY
«column»
*pfK Drilling_Company_ID: int
*pfK Driller_ID: int
* Effective_Date: datetime
* Is_Active_Flag: bit
Create_Timestamp: datetime
Update_Timestamp: datetime
«FK»
+ Driller_ID(int)
+ Drilling_Company_ID(int)
«PK»
+ Drilling_Company_ID_Driller_ID(int, int)

DRILLERS
«column»
*PK Driller_ID: int
User_ID: uniqueidentifier
Last_Name: nvarchar(35)
Middle_Initial: nvarchar(2)
First_Name: nvarchar(25)
Journeyman_Number: nvarchar(10)
Is_Active_Flag: bit
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Driller_ID(int)

LITHOLOGIES
«column»
*PK Lithology_ID: int
*FK Well_Report_ID: int
* Depth: decimal(18,6)
* Water_Bearing: bit
Colour: nvarchar(50)
Material: nvarchar(50)
Description: nvarchar(50)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Lithology_ID(int)
«FK»
+ Well_Report_ID(int)

WELL_DECOMMISSIONING_DETAILS
«column»
*PK Well_Decommissioning_Detail_ID: int
*FK Well_Report_ID: int
Work_Completed_Date: datetime
Current_Static_Water_Level: decimal(18,6)
Current_Well_Depth: decimal(18,6)
FK Well_Decommissioning_Reason_ID: int
Other_Reasons: nvarchar(500)
Is_Well_Disinfected_PriorToPlugging: bit
Is_Pump_Removed: bit
Pump_NotRemoved_Explanation: nvarchar(500)
Is_Casing_Cutoff_Below_Ground_Level: bit
Casing_Cutoff_Below_Ground_Level: decimal(18,6)
Casing_NotCutoff_Explanation: nvarchar(500)
Additional_Comments: nvarchar(max)
Is_WellReport_Copy_GivenToOwner: bit
Is_Certify: bit
Person_Responsible: nvarchar(200)
Is_Completed_By_Owner: bit
Is_Completed_By_Driller: bit
Certification_No: nvarchar(200)
Company_Name: nvarchar(200)
Date_Report_Received: datetime
Create_Timestamp: datetime
Update_Timestamp: datetime
WellDecommissioningReasonKey: int
«PK»
+ Well_Decommissioning_Detail_ID(int)
«FK»
+ Well_Decommissioning_Reason_ID(int)
+ Well_Report_ID(int)

WELL_DECOMMISSIONING_REASONS
«column»
*PK Well_Decommissioning_Reason_ID: int
Name: nvarchar(200)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Well_Decommissioning_Reason_ID(int)

OTHER_SEALS
«column»
*PK Other_Seal_ID: int
*FK Well_Report_ID: int
* Other_Seal_Type: nvarchar(50)
From: decimal(18,6)
To: decimal(18,6)
* At: decimal(18,6)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Other_Seal_ID(int)
«FK»
+ Well_Report_ID(int)

CASING_STATUS
«column»
*PK Casing_Status_ID: int
Name: nvarchar(200)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Casing_Status_ID(int)

WELL_OWNERS
«column»
*PK Well_Owner_ID: int
Well_ID: int
Owner_Name: nvarchar(70)
Address: nvarchar(40)
City: nvarchar(20)
Postal_Code: nvarchar(7)
Province: nvarchar(30)
Country: nvarchar(50)
Create_Timestamp: datetime
Update_Timestamp: datetime
PO_Box: nvarchar(10)
«PK»
+ Well_Owner_ID(int)

SCREENS
«column»
*PK Screen_ID: int
*FK Well_Report_ID: int
Screen_Type: varchar(50)
Screen_Inside_Diameter: decimal(18,6)
* From: decimal(18,6)
* To: decimal(18,6)
* Slot_Size: decimal(18,6)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Screen_ID(int)
«FK»
+ Well_Report_ID(int)

PUMP_TESTS
«column»
*PK Pump_Test_ID: int
*FK Well_Report_ID: int
Test_Date: datetime
Start_Time: datetime
Taken_From_Top_of_Casing: bit
Static_Water_Level: decimal(18,2)
End_Water_Level: decimal(18,2)
Water_Removal_Type: nvarchar(50)
Water_Removal_Rate: decimal(18,2)
Removal_Depth_From: decimal(18,2)
Reason_for_Short_Test: varchar(255)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Pump_Test_ID(int)
«FK»
+ Well_Report_ID(int)

PERFORATIONS
«column»
*PK Perforation_ID: int
*FK Well_Report_ID: int
Distance_Between: decimal(18,6)
* From: decimal(18,6)
* To: decimal(18,6)
Diameter: decimal(18,6)
Interval: decimal(18,6)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Perforation_ID(int)
«FK»
+ Well_Report_ID(int)

PLUG_MATERIAL_OPTIONS
«column»
*PK Plug_Material_Option_ID: int
Name: nvarchar(200)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Plug_Material_Option_ID(int)

WELL_CASING_LOG
«column»
*PK Well_Casing_Log_ID: int
FK Well_Decommissioning_Detail_ID: int
From_Depth: decimal(18,6)
To_Depth: decimal(18,6)
Diameter: decimal(18,6)
FK Plug_Material_Option_ID: int
Other_Materials: nvarchar(200)
FK Casing_Status_ID: int
Create_Timestamp: datetime
Update_Timestamp: datetime
WellDecommissioningDetailKey: int
«FK»
+ Casing_Status_ID(int)
+ Plug_Material_Option_ID(int)
+ Well_Decommissioning_Detail_ID(int)
«PK»
+ Well_Casing_Log_ID(int)

WELL_MATERIAL_LOG
«column»
*PK Well_Material_Log_ID: int
FK Well_Decommissioning_Detail_ID: int
From_Depth: decimal(18,6)
To_Depth: decimal(18,6)
FK Material_Option_ID: int
FK Placement_Method_Option_ID: int
Amount: decimal(18,6)
FK Unit_Option_ID: int
Create_Timestamp: datetime
Update_Timestamp: datetime
«FK»
+ Material_Option_ID(int)
+ Placement_Method_Option_ID(int)
+ Unit_Option_ID(int)
+ Well_Decommissioning_Detail_ID(int)
«PK»
+ Well_Material_Log_ID(int)

PLACEMENT_METHOD_OPTIONS
«column»
*PK Placement_Method_Option_ID: int
Name: nvarchar(200)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Placement_Method_Option_ID(int)

PUMP_TEST_ITEMS
«column»
*PK Pump_Test_Item_ID: int
*FK Pump_Test_ID: int
Minutes: decimal(18,2)
Pumping_Depth: decimal(18,6)
Recovery_Depth: decimal(18,6)
Create_Timestamp: datetime
Update_Timestamp: datetime
«FK»
+ Pump_Test_ID(int)
«PK»
+ Pump_Test_Item_ID(int)

PUMP_TEST_ATTACHMENTS
«column»
*PK Pump_Test_Attachment_ID: int
*FK Pump_Test_ID: int
* Data: varbinary(max)
Mimetype: varchar(max)
Name: varchar(max)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Pump_Test_Attachment_ID(int)
«FK»
+ Pump_Test_ID(int)

UNIT_OPTIONS
«column»
*PK Unit_Option_ID: int
Name: nvarchar(200)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Unit_Option_ID(int)

MATERIAL_OPTIONS
«column»
*PK Material_Option_ID: int
Name: nvarchar(200)
Create_Timestamp: datetime
Update_Timestamp: datetime
«PK»
+ Material_Option_ID(int)