

API Developer Manual version 1.0.7

Krux

Drill More, Faster, Smarter



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Service Account Creation

A Service Account is required to consume the API and can be created using the following steps.

- Login to KruxMetrix using account with Administrator privileges.
- Navigate to Settings -> Users.
- Press Add User button which will open the New User page.
- On the New User page, check the Service Account checkbox and enter the required fields. Click Save to continue.

☒ Service Account

Service Account Type

SSO Service Account ▼

Account Name

Authorization

This API utilizes Bearer Tokens for authorization. The Bearer Token must be passed in a key named "Authorization" in each subsequent call to the API.

AUTHORIZATION

Bearer Token

Token

<token>

Token Expiration

Tokens are valid for 7 days. Requests made using an expired token will result in 401 Unauthorized responses from the server and the Response Headers will contain the **WWW-Authenticate** key that has a value similar to **Bearer error="invalid_token", error_description="The token expired at '10/07/2021 17:57:27'"**

Application Program Interface (API)

Auth POST

<https://metrixapi.kruxanalytics.com/users/auth>

Used to authenticate user and obtain the Bearer Token from "token" in the json response. The token key returned in a successful authentication response is needed for all subsequent API calls.

BODY raw

```
{
  "Username": "service_account",
  "Password": "service_account_password"
}
```

RESPONSE

```
{
  "$id": "1",
  "id": 12345,
  "firstName": "Service",
  "lastName": "Account",
  "username": "service_account",
  "password": null,
  "token": "your_token",
  "locked": false,
  "companyID": 12345,
  "configurationName": null,
  "configurationID": 0,
  "subscriptionList": "KruX Api",
  "roleList": "API Service Account"
}
```

Errors

Errors occurring while authenticating will result in 401 Unauthorized.

```
{
  "$id": "1",
  "message": "Username or password is incorrect"
}
```

Companies GET

<https://metrixapi.kruxanalytics.com/api/v2/Export/Companies>

Used to obtain CompanyIDs for all divisions in user's organization for which the user has permission to export data. CompanyId is a required parameter for GetData call.

AUTHORIZATION

This request uses the Bearer Token

HEADERS

Authorization

Bearer <your_token>

RESPONSE

```
{
  "Table": [
    {
      "CompanyID": 12345,
      "CompanyName": "Demo Company",
      "IsParentCompany": 0
    }
  ]
}
```

ExportTypes GET

<https://metrixapi.kruxanalytics.com/api/v2/Export/ExportTypes>

Used to obtain the list of unique queries available in the API that can be used to selectively return required data. "id" from the JSON response must be entered as the queryName parameter for the GetData call.

AUTHORIZATION

This request uses the Bearer Token

HEADERS

Authorization

Bearer <your_token>

RESPONSE

```
[
  {
    "id": "DSRActivity",
    "description": "Returns all Daily Shift Report activities that have been added-deleted-
modified"
  },
  {
    "id": "DSRActivityEquipment",
    "description": "Returns all equipment attached to Daily Shift Report activities that have been
added-deleted-modified"
  },
  {
    "id": "DSREquipment",
    "description": "Returns all Daily Shift Report equipment that has been added-deleted-
modified"
  },
  {
    "id": "DSRConsumables",
    "description": "Returns all Daily Shift Report consumables that have been added-deleted-
modified"
  },
  {
    "id": "TSWorkersLabour",
    "description": "Returns all Timesheet workers that have been added-deleted-modified"
  },
  {
    "id": "TSActivityLabour",
    "description": "Returns all workers attached to Timesheet activities that have been added-
deleted-modified"
  },
  {
    "id": "TSActivityEquipment",
    "description": "Returns all Equipment attached to Timesheet activities that have been added-
deleted-modified"
  },
  {
    "id": "EquipmentRental",
    "description": "Returns all Equipment Rentals that have been added-deleted-modified"
  },
]
```



```

{
  "id": "AdditionalCharges",
  "description": "Returns all Additional Charges that have been added-deleted-modified"
},
{
  "id": "DSR",
  "description": "Returns all Daily Shift Reports that have been added-deleted-modified"
},
{
  "id": "DSRAdditionalCharges",
  "description": "Returns all DSR Additional Charges Rate that have been added/deleted/
modified"
},
{
  "id": "TS",
  "description": "Returns all Timesheets that have been added-deleted-modified"
},
{
  "id": "DSRFluids",
  "description": "Returns all DSR Fluids that have been added/ deleted / modified"
},
{
  "id": "DSRSamples",
  "description": "Returns all DSR Samples that have been added/ deleted / modified"
},
{
  "id": "DSRWorkersLabour",
  "description": "Returns all DSR Workers Labour that have been added / deleted / modified"
},
{
  "id": "DSRActivityLabour",
  "description": "Returns all DSR Activity that have been added/ deleted / modified"
},
{
  "id": "DSRPerDrillRate",
  "description": "Returns all DSR Per Drill Rate that have been added/ deleted / modified"
},
{
  "id": "TSConsumables",
  "description":
"Returns all Timesheet consumables that have been added/ deleted /modified"
},
{

```

```

    "id": "TSFluids",
    "description": "Returns all Timesheet Fluids that have been added / deleted / modified"
  },
  {
    "id": "Holes",
    "description": "Returns all Holes that have been added / deleted / modified"
  }
  {
    "id": "DSRActivityCodes",
    "description": "Returns all Krux codes for Daily Shift Report activity that have been added-
deleted-modified"
  }
  {
    "id": "DSRCoreRun",
    "description": "Returns all Core Runs for Daily Shift Report that have been added-deleted-
modified"
  }
  {
    "id": "DSRDirectionalRun",
    "description": "Returns all Directional Runs for Daily Shift Report that have been added-
deleted-modified"
  }
]

```

ID	Description
DSRActivity	Returns all Daily Shift Report activities that have been added/deleted/modified since exportDateTime
DSRActivityEquipment	Returns all equipment attached to Daily Shift Report activities that have been added/deleted/modified since exportDateTime
DSREquipmentUsage	Returns all Daily Shift Report equipment that has been added/deleted/modified since exportDateTime
DSRConsumables	Returns all Daily Shift Report consumables that have been added/deleted/modified since exportDateTime
TSWorkersLabour	Returns all Timesheet workers that have been added/modified since exportDateTime
TSActivityLabour	Returns all workers attached to Timesheet activities that have been added/modified since exportDateTime
TSActivityEquipment	Returns all workers attached to Timesheet activities that have been added/deleted/modified since exportDateTime
EquipmentRental	Returns all Equipment Rentals that have been added/deleted/modified since exportDateTime



AdditionalCharges	Returns all Additional Charges added/deleted/modified since exportDateTime
DSR	Returns all Daily Shift Reports that have been added/deleted/modified since exportDateTime
TS	Returns all Timesheets that have been added/deleted/modified since exportDateTime
DSRFluids	Returns all Daily Shift Report fluids that have been added/deleted/modified since exportDateTime
Holes	Returns all Holes that have been added/deleted/modified since exportDateTime
DSRSamples	Returns all Daily Shift Report samples that have been added/deleted/modified since exportDateTime
DSRWorkersLabour	Returns all Daily Shift Report workers labour that have been added/deleted/modified since exportDateTime
DSRActivityLabour	Returns all Daily Shift Report activity labour that have been added/modified since exportDateTime
DSRPerDrillRate	Returns all DSR Per Drill Rate that have been added/ modified since exportDateTime
DSRAdditionalCharges	Returns all Additional Charges added/deleted/modified in the DSRs since exportDateTime
TSConsumables	Returns all Timesheet consumables that have been added/ modified since exportDateTime
TSFluids	Returns all Timesheet Fluids that have been added/ modified since exportDateTime
DSRActivityCodes	Returns all Krux unique codes for the DSR Activities that have been added / deleted / modified. The codes include unique Krux level <i>Work SubCategoryID</i> , <i>SubCategoryTypeID</i> , <i>ContractActivityID</i> <i>ContractActivityRateID</i> codes for DSR Activities.
DSRCoreRuns	Returns all Daily Shift Report Core Runs that have been added/deleted/modified since exportDateTime
DSRDirectionalRuns	Returns all Daily Shift Report Directional Runs that have been added/deleted/modified since exportDateTime

GetData GET

<https://metrixapi.kruxanalytics.com/api/v2/Export/GetData/?companyId=12345&exportDateTime=2021-01-22 17:42:08.390&queryName=TS>

Used to export data based on queryName specified in the call. All available options can be retrieved using the ExportTypes call.

AUTHORIZATION

This request uses the Bearer Token



HEADERS

Authorization

Bearer <your_token>

REQUEST PARAMETERS

Key	Value	Description
companyId	Integer (12345)	The company identifier used to specify which division of the company data will be returned for. The CompanyID for all divisions in your organization can be obtained by making a request to https://metrixapi.kruxanalytics.com/api/v2/Export/Companies
exportDateTime	Date (2021-01-22 17:42:08.390)	The starting datetime after which data is exported. Any data that has been added, deleted or modified since exportDateTime will be returned.
queryName	String (DSR)	The list of all queries can be obtained by making a request to https://metrixapi.kruxanalytics.com/api/v2/Export/ExportTypes

Errors

Invalid parameters will result in a 400 Bad Requests status. The message keyname in the response json will contain the parameter name with the validation error. The 3 possible messages include:

- Invalid queryName
- Invalid companyId
- Invalid exportDateTime

```
{  
  "$id": "1",  
  "message": "Invalid queryName"  
}
```

RESPONSE

Each queryName has a unique json response.

Working with the API Data

UIDs

Every data record returned by the API has a unique identifier (UID). Each UID starts with an integer that identifies what type of data it is and then includes one to three additional IDs required to ensure uniqueness of the UID. The general format is of the UID is

Data Type – Report Record ID – Charge ID – Context Dependent ID

Data Type – An integer that identifies what type of data the record is. Included in all UIDs.

Report Record ID – Unique identifier for the report record enter by the user (e.g. A drilling activity record from a Daily Shift Report). Included in all UIDs.

Charge ID – Unique identifier for the charges calculated based on an applicable rate in the contract. (e.g. Charges calculated based on a meterage rate for a drilling activity). Only included for data that can have associated contract rates.

Context Dependent ID – Will be different for each type of data. Only included when required for uniqueness.

The format for each individual UID is included in the following sections.

Processing Incremental Data

All data returned by the GetData method is incremental data based on the exportDateTime parameter provided. This means that only data that is new or has changed in some way since the provided exportDateTime will be included. If any of the following have occurred since exportDateTime the record will be included:

- DSR/TS
 - Approved for contracts with Report Approval Required = Yes
 - Validated for contracts with Report Approval Required = No
 - Rejected
 - Deleted
 - Header data was modified



- Individual record within the report was added, modified, or deleted
- Applicable contract rate was added, modified, or deleted
- Additional Charge/Equipment Rental is approved, modified, or deleted
- Hole Records was added, modified, or deleted

Records with **DeletedFlag** = 'N' represent approved data non-deleted data.

On the other hand, **DeletedFlag** = 'Y' can indicate one of the following scenarios:

1. **New Data:** Data that is not yet approved and is currently pending approval.
2. **Rejected Data:** Data that was rejected by an approver and has reverted to a pending status.
3. **Deleted Data:** Records removed from various sources, such as the Daily Shift Report or Timesheet and rate records deleted from contracts (which will in turn delete associated charges on DSR, TS, etc.). So, in order to distinguish actual deleted data from new or rejected data, we introduced the **DataDeleted** flag.

To process the new incremental data against existing dataset, use the following logic:

UID Exist in Dataset	Delete Flag	DataDeleted	Action Required
Y	Y	Y	Remove record from dataset
Y	Y	N	Remove record in dataset
Y	N	N	Update record in dataset
N	Y	Y	Disregard, do not add record to dataset
N	Y	N	Disregard, do not add record to dataset
N	N	N	Add record to dataset

Using Report and Charge Data

Each type of data returned by the API consists of just report data or report and charge data from an associated contract rate. If a data type also includes charge data, its UID will include a charge ID. The only exception to this is Additional Charges, as they are charge records in and of themselves; they have no associated contract rates. In general, the fields that are associated with the charge portion of a records are:

- Billing Type
- Total Charges
- Currency Code



The other data fields are associated with the report portion of the record.

Each individual report record can have multiple associated contract rates. This means that one report record can return multiple unique records in the API with different charges.

Example – A DSR drilling activity with a meterage rate and an hourly rate. This will return 2 records in the API.

Data Field	Record 1	Record 2
UID	1-12345-333	1-12345-777
DailyReportID	16556	16556
HoleID	47478	47478
Hole	TYC-1209	TYC-1210
Activity	Drilling	Drilling
Type	Coring	Coring
Bit Size	NQ	NQ
DistanceDrilledFrom	53	53
DistanceDrilledTo	75	75
Billable	Yes	Yes
ActivityHours	4	4
TotalManHours	8	8
Penetration	22	22
BillingType	Per Distance	Per Activity Hour
DistanceFromToUnitAbbr	m	m
TotalCharges	1430	200
CurrencyCode	CAD	CAD

Depending how you want to manipulate the API data you may have to breakout the UID in its separate IDs.

Example Calculation 1 – If you want to find the total of all charges for report record, you have to sum the TotalCharges field for all records that have the same Report Record ID.

Example Calculation 2 – If you want to find total activity hours for a Daily Shift Report. You first have to group the activity records so that you have only one record per Report Record ID. Then sum the Activity Hours field for all activities with the same DailyReportID.

Hole Data

	UID	VARCHAR(22)
	HoleID	INT
	HoleName	NVARCHAR(100)
	HoleStatus	VARCHAR(10)
	CompleteDateTime	DATE
	HoleType	NVARCHAR(200)
	ContractorCompany	VARCHAR(200)
	ContracteeCompany	VARCHAR(200)
	Contract	NVARCHAR(100)
	Project	NVARCHAR(100)
	Plan	NVARCHAR(200)
	FirstActivityDate	DATE
	LastActivityDate	DATE
	MaxDepth	DECIMAL(22, 2)
	PlannedDepth	DECIMAL(22, 2)
	DepthUnit	NVARCHAR(100)
	TotalDistanceDrilled	DECIMAL(22, 3)
	TotalActivityHours	DECIMAL(22, 3)
	TotalDrillingHours	DECIMAL(22, 3)
	Penetration	DECIMAL(22, 3)
	Easting	FLOAT
	Northing	FLOAT
	UTMZone	NVARCHAR(50)
	MineGridEasting	FLOAT
	MineGridNorthing	FLOAT
	Elevation	FLOAT
	ElevationUnit	NVARCHAR(100)
	PlannedAzimuth	FLOAT
	PlannedDip	FLOAT
	DeletedFlag	VARCHAR(1)
	ExportDateTime	DATETIME
	ContractID	INT

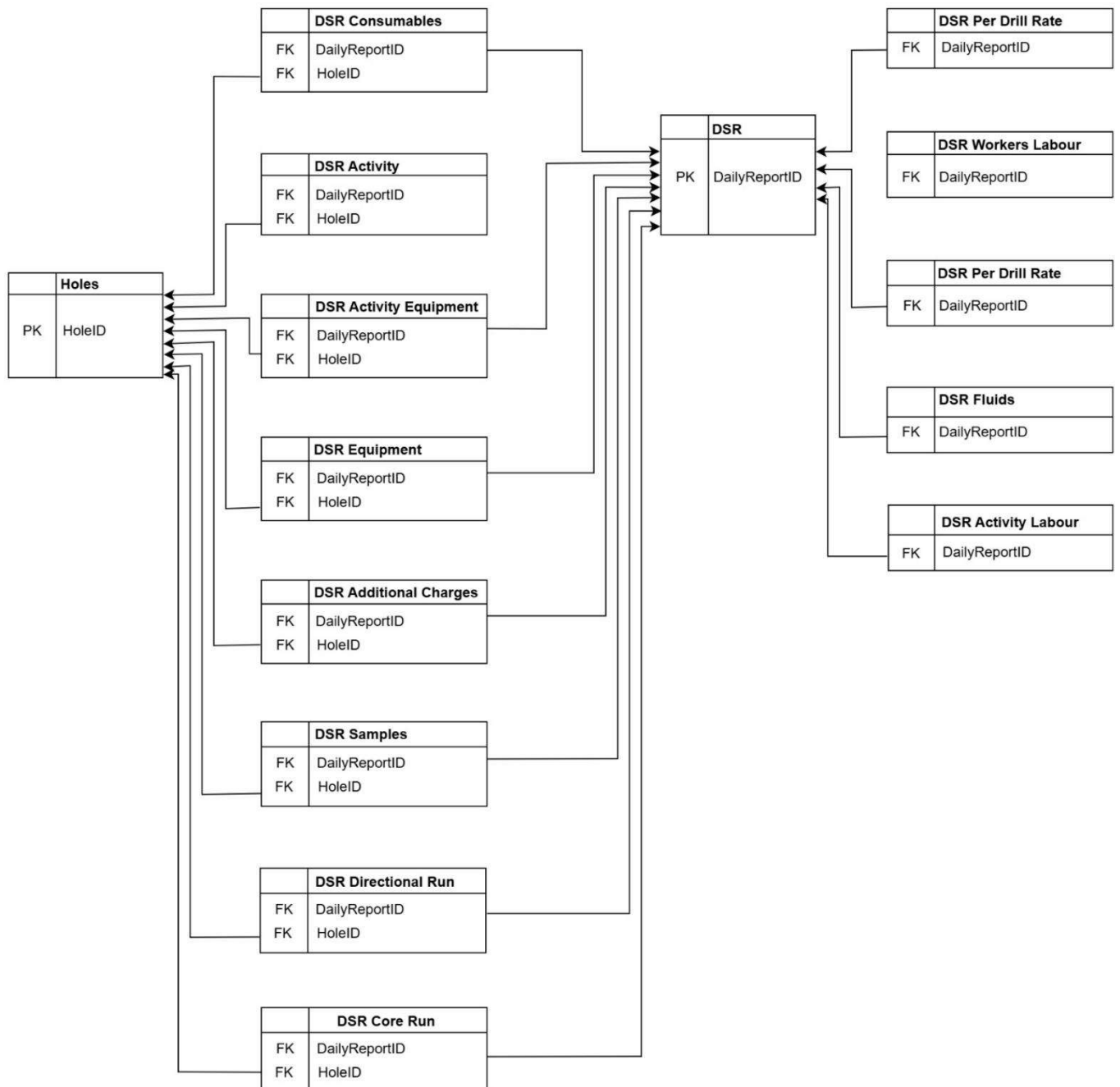
Hole UID Format

14-[HoleID]

The **HoleID** column is the unique identifying number for a hole. Any record associated directly with a hole will include HoleID as well as Hole. Hole is the name for that hole entered by the user and displayed to identify the hole for the users in the KruXMetrix and KruXLog. Hole is very often unique but it is not guaranteed to be unique; for the purposes of processing the data from the API, HoleID must be used.

Daily Shift Report (DSR) Data

DSR Relationship diagram



DSR Data Definitions

DSR UID Format

11-[DailyReportID]

The **DailyReportID** column is the unique identifying number for the Daily Shift Report (DSR). All associated data for the same DSR will have the same DailyReportID.

DSR

UID	VARCHAR(22)
DailyReportID	BIGINT
ContractorCompany	VARCHAR(200)
ContracteeCompany	VARCHAR(200)
Contract	NVARCHAR(100)
Project	NVARCHAR(100)
Drill	NVARCHAR(100)
ReportDate	DATE
Status	VARCHAR(30)
Supervisor	NVARCHAR(201)
Shift	NVARCHAR(100)
ValidatedBy	NVARCHAR(201)
ValidatedDate	DATETIME
ApprovedBy	NVARCHAR(201)
ApprovedDate	DATETIME
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
ContractID	INT

DSRWorkerLabour UID Format

16-[DSRWorkerLabourID]-[DSRWorkerLabourChargeID]

The DSRWorkerLabourID is the unique identifier for the workers with payroll hours entered in the DSR. The DSRWorkerLabourChargeID is the unique identifier for the charges calculated for that worker based on an applicable rate in the contract. If there is no applicable rate in the contract, DSRWorkerLabourChargeID will be null.



DSR Workers Labour

	UID	VARCHAR(42)
	DailyReportID	BIGINT
	Name	NVARCHAR(201)
	Role	NVARCHAR(50)
	PayrollHours	DECIMAL(6, 3)
	BillingType	VARCHAR(100)
	TotalCharges	DECIMAL(22, 2)
	CurrencyCode	VARCHAR(100)
	DeletedFlag	VARCHAR(1)
	ExportDateTime	DATETIME
	DataDeleted	VARCHAR(1)

DSRActivity UID Format

1-[DSRActivityID]-[DSRActivityChargeID]

The DSRActivityID is the unique identifier for the activity entered in the DSR. The DSRActivityChargeID is the unique identifier for the charges calculated for that activity based on an applicable rate in the contract. If there is no applicable rate in the contract, DSRActivityChargeID will be null.

DSR Activity

	UID	VARCHAR(42)
	DailyReportID	BIGINT
	HoleID	INT
	Hole	NVARCHAR(100)
	Activity	VARCHAR(100)
	Type	NVARCHAR(200)
	BitSize	VARCHAR(100)
	DistanceDrilledFrom	DECIMAL(22, 3)
	DistanceDrilledTo	DECIMAL(22, 3)
	Distance	DECIMAL(25, 3)
	Depth	DECIMAL(22, 2)
	Billable	VARCHAR(1)
	ActivityHours	DECIMAL(7, 3)
	TotalManHours	DECIMAL(22, 3)
	Penetration	DECIMAL(22, 3)
	BillingType	VARCHAR(100)
	DistanceFromToUnitAbbr	NVARCHAR(50)
	DistanceUnitAbbr	NVARCHAR(50)
	DepthUnitAbbr	NVARCHAR(50)
	TotalCharges	DECIMAL(22, 2)
	CurrencyCode	VARCHAR(100)
	DeletedFlag	VARCHAR(1)
	ExportDateTime	DATETIME
	WorkSubCategoryID	INT
	WorkSubCategoryTypeID	INT
	DataDeleted	VARCHAR(1)
	ChargeFrom	FLOAT
	ChargeTo	FLOAT
	Comments	VARCHAR(42)
	BitSizeID	INT

DSRActivityEquipment UID Format

3-[*DSRActivityEquipmentID*]-[*DSRActivityEquipmentChargeID*]

The DSRActivityEquipmentID is the unique identifier for the equipment entered for an activity in the DSR. The DSRActivityEquipmentChargeID is the unique identifier for the charges calculated for that equipment based on an applicable rate in the contract. If there is no applicable rate in the contract, DSRActivityEquipmentChargeID will be null.

DSR Activity Equipment

	UID	VARCHAR(42)
	DailyReportID	BIGINT
	HoleID	INT
	Hole	NVARCHAR(100)
	Activity	VARCHAR(100)
	Equipment	NVARCHAR(100)
	EquipmentHours	DECIMAL(6, 3)
	EquipmentUnit	NVARCHAR(30)
	BillingType	VARCHAR(100)
	TotalCharges	DECIMAL(22, 2)
	CurrencyCode	VARCHAR(100)
	DeletedFlag	VARCHAR(1)
	ExportDateTime	DATETIME
	ContractEquipmentID	INT
	DataDeleted	VARCHAR(1)

DSRActivityLabour UID Format

17-[*DSRActivityLabourID*]-[*DSRActivityLabourChargeID*]

The DSRActivityLabourID is the unique identifier for the workers with man hours entered for an activity in the DSR. The DSRActivityLabourChargeID is the unique identifier for the charges calculated for that worker based on an applicable rate in the contract. If there is no applicable rate in the contract, DSRActivityLabourChargeID will be null.

DSR Activity Labour

UID	VARCHAR(42)
DailyReportID	BIGINT
Activity	VARCHAR(100)
Name	NVARCHAR(201)
Role	NVARCHAR(50)
ManHours	DECIMAL(6, 3)
BillingType	VARCHAR(100)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
DataDeleted	VARCHAR(1)

DSREquipmentUsage UID Format

4-[DSREquipmentID]-[DSREquipmentChargeID]]-[EquipmentUnitID]

The DSREquipmentID is the unique identifier for the equipment record entered in the DSR. The EquipmentUnitID is the unique identifier for a specific equipment unit that was included in the equipment record. If no specific equipment unit is selected, EquipmentUnitID will be null. The DSREquipmentChargeID is the unique identifier for the charges calculated for that equipment based on an applicable rate in the contract. If there is no applicable rate in the contract, DSREquipmentChargeID will be null.

DSR Equipment

 UID	VARCHAR(62)
DailyReportID	BIGINT
HoleID	INT
Hole	NVARCHAR(100)
Equipment	NVARCHAR(100)
EquipmentUnit	NVARCHAR(30)
Quantity	DECIMAL(22, 3)
BillingType	VARCHAR(100)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
ContractEquipmentID	INT
DataDeleted	VARCHAR(1)

DSRConsumables UID Format

5-[DSRConsumablesID]-[DSRConsumablesChargeID]

The DSRConsumablesID is the unique identifier for the consumable entered in the DSR. The DSRConsumablesChargeID is the unique identifier for the charges calculated for that consumable based on an applicable rate in the contract. If there is no applicable rate in the contract, DSRConsumablesChargeID will be null.

DSR Consumables

 UID	VARCHAR(42)
DailyReportID	BIGINT
HoleID	INT
Hole	NVARCHAR(100)
Consumable	NVARCHAR(100)
Quantity	DECIMAL(22, 3)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
ContractConsumablesRateID	INT
DataDeleted	VARCHAR(1)

DSRFluids UID Format

13-[DSRFluidsID]-[DSRFluidsChargeID]

The DSRFluidsID is the unique identifier for the fluid volume entered in the DSR. The DSRFluidsChargeID is the unique identifier for the charges calculated for that fluid based on an applicable rate in the contract. If there is no applicable rate in the contract, DSRFluidsChargeID will be null.

DSR Fluids

UID	VARCHAR(42)
DailyReportID	BIGINT
Fluid	VARCHAR(500)
FluidType	NVARCHAR(500)
Volume	FLOAT
Unit	NVARCHAR(100)
CostPerUnit	DECIMAL(11, 2)
Markup	DECIMAL(6, 2)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
DataDeleted	VARCHAR(1)

DSRSamples UID Format

15-[DSRSamplesID]

The DSRSamplesID is the unique identifier for the sample entered in the DSR.

DSR Samples

 UID	VARCHAR(22)
DailyReportID	BIGINT
HoleID	INT
Hole	NVARCHAR(100)
SampleType	VARCHAR(100)
From	FLOAT
To	FLOAT
Unit	NVARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
DataDeleted	VARCHAR(1)

DSRPerDrillRate UID Format*18-[DSRPerDrillRateID]*

The DSRPerDrillRateID is the unique identifier for the Per Drill Rate entered in the DSR.

DSR Per Drill Rate

 UID	VARCHAR(22)
DailyReportID	BIGINT
BillingType	VARCHAR(513)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
Drill	NVARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME

DSRAdditionalCharges UID Format*10-[DSRAdditionalChargeID]*

The DSRAdditionalChargeID is the unique identifier for the DSR additional charge record.

DSR Additional Charge

 UID	VARCHAR(22)
DailyReportID	BIGINT
HoleID	INT
HoleName	NVARCHAR(100)
Description	NVARCHAR(500)
ChargeRate	DECIMAL(16, 3)
ChargeableQuantity	FLOAT
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
DeleteFlag	VARCHAR(1)
ExportDateTime	DATETIME
DataDeleted	VARCHAR(1)

DSRActivityCodes UID Format*22-[DSRActivityID]-[DSRActivityChargeID]*

The DSRActivityID is the unique identifier for the activity entered in the DSR. The DSRActivityChargeID is the unique identifier for the charges calculated for that

activity based on an applicable rate in the contract. If there is no applicable rate in the contract, DSRActivityChargeID will be null.

DSR Activity Code Relationship diagram



DSR Activity Codes


	UID	VARCHAR(42)
	DSRActivityUID	VARCHAR(41)
	Activity	VARCHAR(100)
	WorkSubCategoryID	INT
	Type	NVARCHAR(200)
	WorkSubCategoryTypeID	INT
	ContractName	NVARCHAR(100)
	ContractActivityID	BIGINT
	ContractActivityRateID	BIGINT
	DistanceFrom	DECIMAL(22, 3)
	DistanceTo	DECIMAL(22, 3)
	DipFrom	DECIMAL(20, 2)
	DipTo	DECIMAL(20, 2)
	TimeFrom	INT
	TimeTo	INT
	DefinedRateName	NVARCHAR(100)
	DefinedRate	MONEY
	ActivityBillingType	VARCHAR(100)
	RateType	VARCHAR(100)
	CustomRate	MONEY
	DistanceFromToUnit	NVARCHAR(50)
	CreatedDateTime	DATETIME
	LastModDateTime	DATETIME
	LastModByUserName	VARCHAR(255)
	ExportDateTime	DATETIME
	ContractID	INT

DSRCoreRun UID Format

23-[*DailyReportHoleActivityCoreRunID*]

The *DailyReportHoleActivityCoreRunID* is the unique identifier for the core run entered for a drilling activity in the DSR.

Core Runs


	UID	VARCHAR(19)
	DailyReportID	BIGINT
	HoleID	INT
	CoreNumber	BIGINT
	CoreBarrelSize	FLOAT
	ConstantStickUp	FLOAT
	DepthFrom	DECIMAL(22, 2)
	DepthTo	DECIMAL(22, 2)
	TotalDrilled	DECIMAL(22, 2)
	Recovered	DECIMAL(22, 2)
	CoreLoss	DECIMAL(22, 2)
	Recovered%	DECIMAL(22, 2)
	Orientation	VARCHAR(3)
	StickUp	FLOAT
	CoreBoxTop	NVARCHAR(255)
	CoreBoxBottom	NVARCHAR(255)
	DeletedFlag	VARCHAR(1)

DSRDirectionalRun UID Format

23-[*DailyReportHoleActivityDirectionalRunID*]

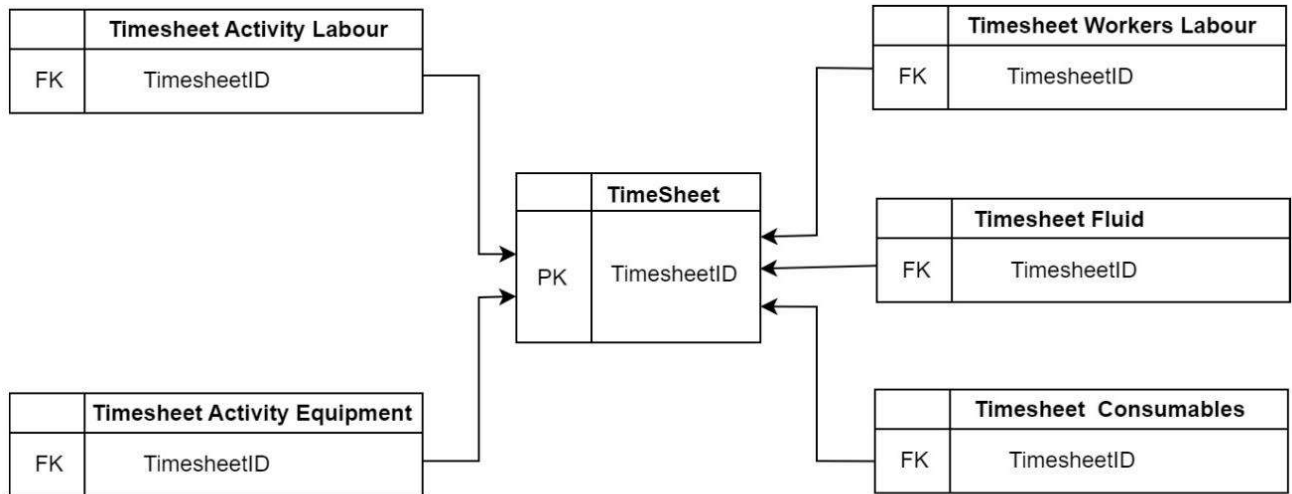
The *DailyReportHoleActivityCoreRunID* is the unique identifier for the core run entered for a drilling activity in the DSR.

Directional Run

	UID	VARCHAR(19)
	DailyReportID	BIGINT
	HoleID	INT
	DepthFrom	NVARCHAR(75)
	DepthTo	NVARCHAR(75)
	StartTime	CHAR(5)
	EndTime	CHAR(5)
	PumpingDuration	CHAR(5)
	PullingDuration	CHAR(5)
	DrillingDuration	CHAR(5)
	RateOfPenetration	DECIMAL(22, 1)
	WOB	NVARCHAR(75)
	Torque	NVARCHAR(75)
	RPM	DECIMAL(22, 1)
	WaterFlow	NVARCHAR(60)
	WaterPressure	NVARCHAR(60)
	DoglegSetting	DECIMAL(22, 1)
	DialIndication	NVARCHAR(75)
	CCG	DECIMAL(22, 1)
	ToolfaceBD	INT
	ToolfaceAD	INT
	InclinationBD	DECIMAL(22, 1)
	InclinationAD	DECIMAL(22, 1)
	EndReason	NVARCHAR(30)
	DeletedFlag	VARCHAR(1)

Timesheet (TS) Data

TS Relationship diagram



TS UID Format

12-[TimesheetID]

The **TimesheetID** column is the unique identifying number for the Timesheet (TS). All associated data for the same timesheet will have the same TimesheetID.

TS

 UID	VARCHAR(22)
TimesheetID	INT
ContractorCompany	VARCHAR(200)
ContracteeCompany	VARCHAR(200)
Contract	NVARCHAR(100)
Project	NVARCHAR(100)
ReportDate	DATE
Status	VARCHAR(30)
SubmittedBy	NVARCHAR(201)
ValidatedBy	NVARCHAR(201)
ValidatedDate	DATETIME
ApprovedBy	NVARCHAR(201)
ApprovedDate	DATETIME
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
ContractID	INT

TSWorkersLabour UID Format

6-[TSWorkerLabourID]-[TSWorkerLabourChargeID]

The TSWorkerLabourID is the unique identifier for the workers with payroll hours entered in the TS. The TSWorkerLabourChargeID is the unique identifier for the charges calculated for that worker based on an applicable rate in the contract. If there is no applicable rate in the contract, TSWorkerLabourChargeID will be null.

TS Workers Labour


 UID	VARCHAR(42)
TimesheetID	INT
Name	NVARCHAR(201)
Role	NVARCHAR(50)
PayrollHours	DECIMAL(6, 3)
BillingType	VARCHAR(100)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
DataDeleted	VARCHAR(1)

TSActivityLabour UID Format

7-[TSActivityLabourID]-[TSActivityLabourChargeID]

The TSActivityLabourID is the unique identifier for the workers with man hours entered for an activity in the TS. The TSActivityLabourChargeID is the unique identifier for the charges calculated for that worker based on an applicable rate in the contract. If there is no applicable rate in the contract, TSActivityLabourChargeID will be null.

TS Activity Labour

 UID	VARCHAR(42)
TimesheetID	INT
Name	NVARCHAR(201)
Role	NVARCHAR(50)
Activity	NVARCHAR(100)
ManHours	DECIMAL(6, 3)
BillingType	VARCHAR(100)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
DataDeleted	VARCHAR(1)

TSActivityEquipment UID Format

8-[TSActivityEquipmentID]-[TSActivityEquipmentChargeID]

The TSActivityEquipmentID is the unique identifier for the equipment entered for an activity in the TS. The TSActivityEquipmentChargeID is the unique identifier for the charges calculated for that equipment based on an applicable rate in the contract. If there is no applicable rate in the contract, TSActivityEquipmentChargeID will be null.

TS Activity Equipment

 UID	VARCHAR(42)
TimesheetID	INT
Activity	NVARCHAR(100)
Equipment	NVARCHAR(100)
EquipmentHours	DECIMAL(6, 3)
EquipmentUnit	NVARCHAR(30)
BillingType	VARCHAR(100)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
DataDeleted	VARCHAR(1)

TSConsumables UID Format

20-[TSConsumablesID]

The TSConsumablesID is the unique identifier for the timesheet consumables entered for an activity in the TS.

TS Consumables


	UID	VARCHAR(42)
	TimesheetID	INT
	TimesheetConsumableID	BIGINT
	Consumables	NVARCHAR(100)
	Quantity	FLOAT
	TotalCharges	DECIMAL(22, 2)
	CurrencyCode	VARCHAR(100)
	ExportDeleteFlag	VARCHAR(1)
	ExportDateTime	DATETIME
	DataDeleted	VARCHAR(1)

TSFluid UID Format

19-[TSFluid]

The TimesheetFluidConsumptionID is the unique identifier for the timesheet fluid consumables entered for an activity in the TS.

TS Fluid

	UID	VARCHAR(22)
	TimesheetID	INT
	TimesheetFluidConsumptionID	BIGINT
	Fluid	VARCHAR(500)
	FluidType	NVARCHAR(500)
	Volume	FLOAT
	Unit	NVARCHAR(100)
	CostPerUnit	DECIMAL(11, 2)
	Markup	DECIMAL(6, 2)
	TotalCharges	DECIMAL(38, 2)
	CurrencyCode	VARCHAR(100)
	ExportDeleteFlag	VARCHAR(1)
	ExportDateTime	DATETIME
	DataDeleted	VARCHAR(1)

Equipment Rentals Data

 UID	VARCHAR(42)
ContractorCompany	VARCHAR(200)
ContracteeCompany	VARCHAR(200)
Contract	NVARCHAR(100)
Project	NVARCHAR(100)
Drill	NVARCHAR(100)
Equipment	NVARCHAR(100)
RentalStartDate	DATE
RentalEndDate	DATE
Quantity	INT
BillingType	VARCHAR(100)
TotalCharges	DECIMAL(22, 2)
CurrencyCode	VARCHAR(100)
ClientApprovedBy	NVARCHAR(201)
ClientApprovedDate	DATETIME
ContractorApprovedBy	NVARCHAR(201)
ContractorApprovedDate	DATETIME
DeletedFlag	VARCHAR(1)
ExportDateTime	DATETIME
DataDeleted	VARCHAR(1)
ContractID	INT

EquipmentRental UID Format

9-[EquipmentRentalID]-[EquipmentRentalChargeID]

The EquipmentRentalID is the unique identifier for the equipment rental record. The EquipmentRentalChargeID is the unique identifier for the charges calculated for that equipment rental based on an applicable rate in the contract. If there is no applicable rate in the contract, EquipmentRentalChargeID will be null.

Additional Charges Data

AdditionalCharges UID Format

10-[AdditionalChargeID]

The AdditionalChargeID is the unique identifier for the additional charge record.



Additional Charges

	UID	VARCHAR(22)
	ContractorCompany	VARCHAR(200)
	ContracteeCompany	VARCHAR(200)
	Contract	NVARCHAR(100)
	Project	NVARCHAR(100)
	Drill	NVARCHAR(100)
	HoleID	INT
	Hole	NVARCHAR(100)
	ChargeDate	DATE
	Description	NVARCHAR(500)
	ChargeRate	DECIMAL(22, 2)
	ChargeableQuantity	DECIMAL(22, 2)
	TotalCharges	DECIMAL(22, 2)
	CurrencyCode	VARCHAR(100)
	ClientApprovedBy	NVARCHAR(201)
	ClientApprovedDate	DATETIME
	ContractorApprovedBy	NVARCHAR(201)
	ContractorApprovedDate	DATETIME
	DeletedFlag	VARCHAR(1)
	ExportDateTime	DATETIME
	DataDeleted	VARCHAR(1)
	ContractID	INT