Command Reference: WriteWellRightsToStateMod()

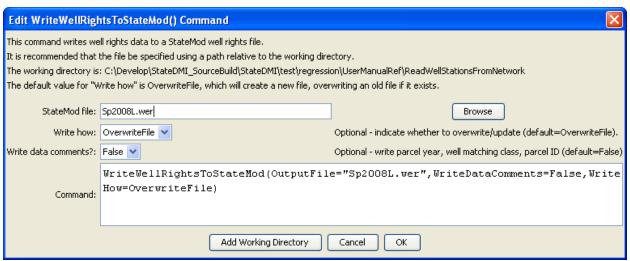
Write well rights data to a StateMod file

StateMod Command

Version 3.09.00, 2010-01-25

The WriteWellRightsToStateMod() command writes well rights to a StateMod well rights file. The current in-memory rights are written. See also the MergeWellRights() and AggregateWellRights() commands.

The following dialog is used to edit the command and illustrates the syntax of the command.



WriteWellRightsToStateMod() Command Editor

WriteWellRightsToStateMod

The command syntax is as follows:

WriteWellRightsToStateMod(Parameter=Value,...)

Command Parameters

Parameter	Description	Default
OutputFile	The name of the output file to write, surrounded by double quotes.	None – must be
		specified.
WriteHow	OverwriteFile if the file should be overwritten or	OverwriteFile
	UpdateFile if the file should be updated, resulting in the	
	previous header being carried forward.	
WriteData	Write comments to the right of normal data, including the parcel	False
Comments	year, parcel/well matching class, and parcel ID. This information	
	is necessary to fill irrigation practice and crop pattern time series	
	with well water rights. Typically, a "_NotMerged.wer" well right	
	file is written and then merged and possibly aggregated rights files	
	are written.	

An excerpt from a well rights file with data comments is shown below:

#>	ID		Nam	е	Struct		Admin #	Decree	On/Off	PYr	-Cls	PID
#>		eb			eb	-eb	e	bel	oe:	xbex	kbex	be
2005	5001	W0006	WELL NO	01	200812		31592.00000	2.34	1936	1936	1	3107
2005	5001	W0006	WELL NO	01	200812		38836.00000	1.23	1956	1936	1	3107
2005	5001	W0006	WELL NO	01	200812		31592.00000	2.34	1936	1998	2	11016
2005	5001	W0006	WELL NO	01	200812		31592.00000	1.15	1936	2002	5	20902
2005	5001	W0006	WELL NO	01	200812		38836.00000	0.61	1956	2002	5	20902

The following example command file illustrates how well rights can be defined, sorted, checked, and written to a StateMod file:

```
# Well Rights File (*.wer)
StartLog(LogFile="Sp2008L_WER.log")
# Step 1 - Read all structures
ReadWellStationsFromNetwork(InputFile="..\Network\Sp2008L.net")
\sharp Step 2 - define diversion and d&w aggregates and demand systems
SetWellAggregateFromList(ListFile="..\Sp2008L_SWAgg.csv",PartType=Ditch,IDCol=1,
 NameCol=2, PartIDsCol=3, PartsListedHow=InColumn, IfNotFound=Warn)
SetWellSystemFromList(ListFile="..\Sp2008L_DivSys_DDH.csv",PartType=Ditch,IDCol=1,
 NameCol=2, PartIDsCol=3, PartsListedHow=InRow, IfNotFound=Warn)
SetWellAggregateFromList(ListFile="Sp2008L_AugRchWell_Aggregates.csv",PartType=Well,
 IDCol=1,PartIDsCol=2,PartsListedHow=InRow)
# Step 3- Set Well aggregates (GW Only lands)
# rrb Same as provided by LRE as Sp_GWAgg_xxxx.csv except non WD 01 and 64 removed
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_1956.csv", Year=1956, Div=1,
  PartType=Parcel, IDCol=1, PartIDsCol=2, PartsListedHow=InColumn)
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_1976.csv", Year=1976, Div=1,
  {\tt PartType=Parcel,IDCol=1,PartIDsCol=2,PartsListedHow=InColumn)}
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_1987.csv",Year=1987,Div=1,
 PartType=Parcel, IDCol=1, PartIDsCol=2, PartsListedHow=InColumn)
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_2001.csv", Year=2001, Div=1,
 PartType=Parcel, IDCol=1, PartIDsCol=2, PartsListedHow=InColumn)
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_2005.csv",Year=2005,Div=1,
 PartType=Parcel, IDCol=1, PartIDsCol=2, PartsListedHow=InColumn)
# Step 4 - Read Augmentation and Recharge Well Aggregate Parts
SetWellAggregateFromList(ListFile="Sp2008L_AugRchWell_Aggregates.csv",PartType=Well,
  IDCol=1,PartIDsCol=2,PartsListedHow=InRow,PartIDsColMax=25,IfNotFound=Ignore)
SetWellAggregateFromList(ListFile="Sp2008L_AlternatePoint_Aggregates.csv",PartType=Well,
  IDCol=1,PartIDsCol=2,PartsListedHow=InRow,PartIDsColMax=1,IfNotFound=Ignore)
# Step 5 - Read rights from HydroBase
ReadWellRightsFromHydroBase(ID="*",IDFormat="HydroBaseID",Year="1956,1976,1987,2001,2005",
 Div="1", DefaultAppropriationDate="1950-01-01", DefineRightHow=RightIfAvailable,
 ReadWellRights=True, UseApex=True, OnOffDefault=AppropriationDate)
# Step 6 - Sort and Write
  Write Data Comments="True" provides output used for subsequent cds & ipy acreage filling
  Write Data Comments="False" provides merged file used for seting ipy max pumping
SortWellRights(Order=LocationIDAscending,Order2=IDAscending)
WriteWellRightsToStateMod(OutputFile="Sp2008L_NotMerged.wer",WriteDataComments=True)
MergeWellRights(OutputFile="..\StateMod\Historic\Sp2008L.wer")
SortWellRights(Order=LocationIDAscending,Order2=IDAscending)
WriteWellRightsToStateMod(OutputFile="Sp2008L.wer",WriteDataComments=False,WriteHow=OverwriteFile)
# Check the well rights
CheckWellRights(ID="*")
WriteCheckFile(OutputFile="Sp2008L.wer.check.html",Title="Well Rights Check File")
```