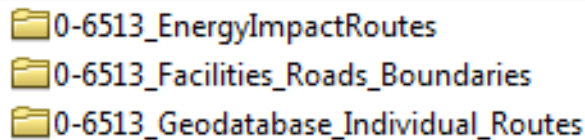


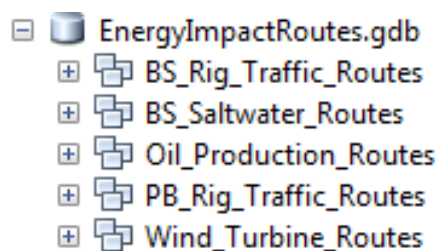
Meta File for Energy Impact (TxDOT Project # 0-6513) GIS Files

Overview of the Contents of the Energy Impact DVD

The Energy Impact DVD contains the following 4 folders:



The “0-6513_EnergyImpactRoutes” folder contains an Energy Impact Routes geodatabase (.gdb file extension) that contains all the final, projected feature classes created and used for TxDOT project 0-6513. The Energy Impact Routes geodatabase contains separate feature classes for the different types of routes (BS is for Barnett Shale and PB is for Permian Basin):



The “0-6513_Facilities_Roads_Boundaries” folder contains a file geodatabase with point features of different energy-related locations (e.g., gas and oil wells) and place names, line features of railroads and of TxDOT roadway centerlines as of 2008 (TxDOT_Routed_EOY_2008_Centerline), and shape features for state (tl_2009_us_state) and county boundaries. (StratMapv2_County_poly).

The “0-6513_Geodatabase_Individual_Routes” folder contains the individual routes as separate geodatabases, and the individual routes as layer files. The files in this folder are not projected.

Energy Impact Routes Geodatabase

The files in the Energy Impact Routes geodatabase are projected in the following coordinate system:

Projection: Lambert_Conformal_Conic
False_Easting: 1000000.000000
False_Northing: 1000000.000000
Central_Meridian: -100.000000
Standard_Parallel_1: 27.416667
Standard_Parallel_2: 34.916667
Latitude_Of_Origin: 31.166667
Linear Unit: Meter (1.000000)
Geographic Coordinate System: GCS_North_American_1983
Angular Unit: Degree (0.017453292519943299)

Prime Meridian: Greenwich (0.000000000000000000)
Datum: D_North_American_1983
Spheroid: GRS_1980
Semimajor Axis: 6378137.000000000000000000
Semiminor Axis: 6356752.314140356100000000
Inverse Flattening: 298.257222101000020000

Maps of each of the routes and facilities are provided in the last section of this report.

Background on Data for Routes and Facilities

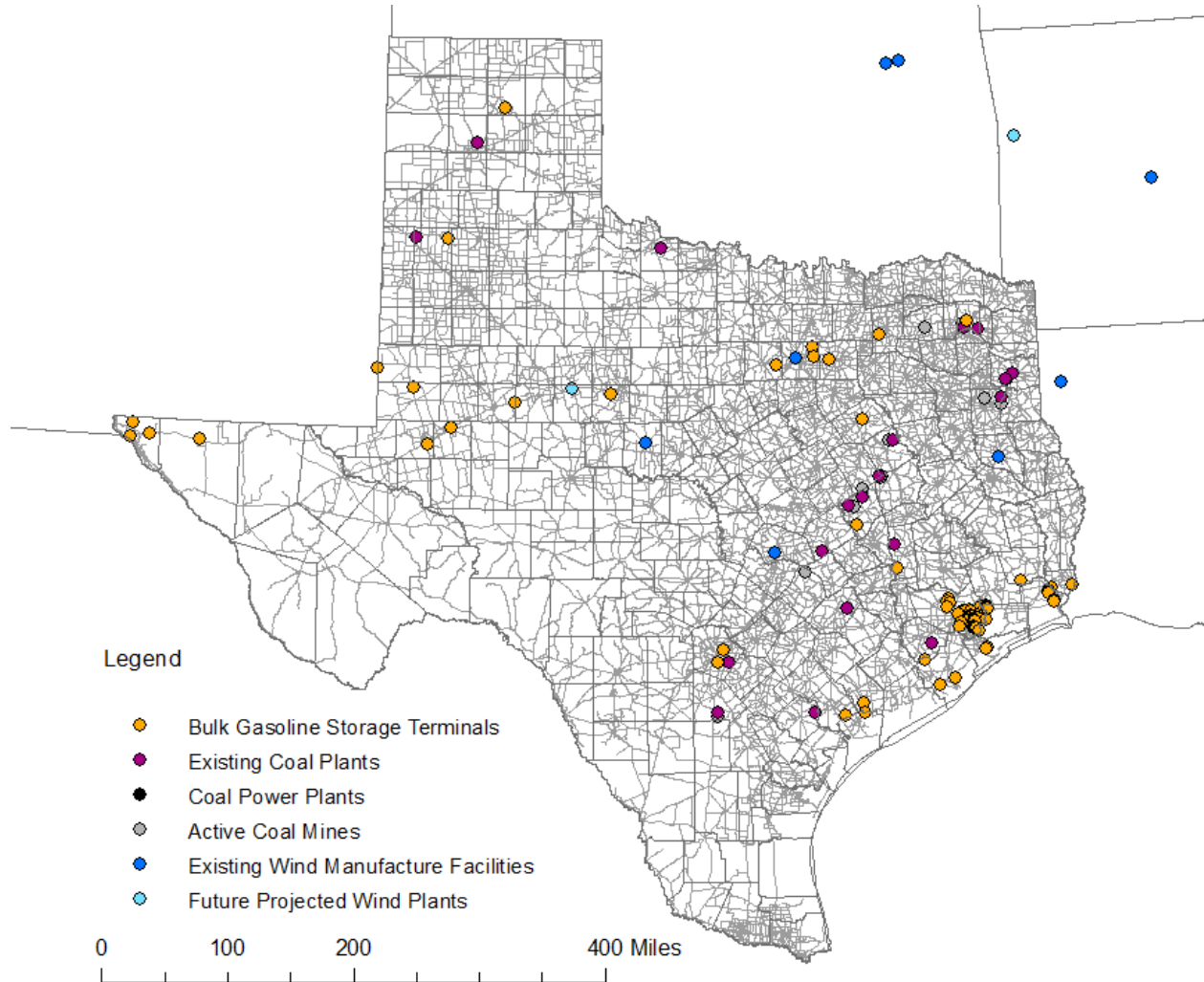
Section 3.3.5, Selection of Pavement Sections, of the *Impacts of Energy Developments on the Texas Transportation System Infrastructure* Report 0-6513-1A, dated October 2011, provides an explanation of how the routes were selected and entered into GIS.

The routes labeled in the four folders on the DVD are coded with their record ids and not the permit ids. The record id refers to the line number of the particular record in the Oversize/Overweight database (OS/OW) database for a particular year.

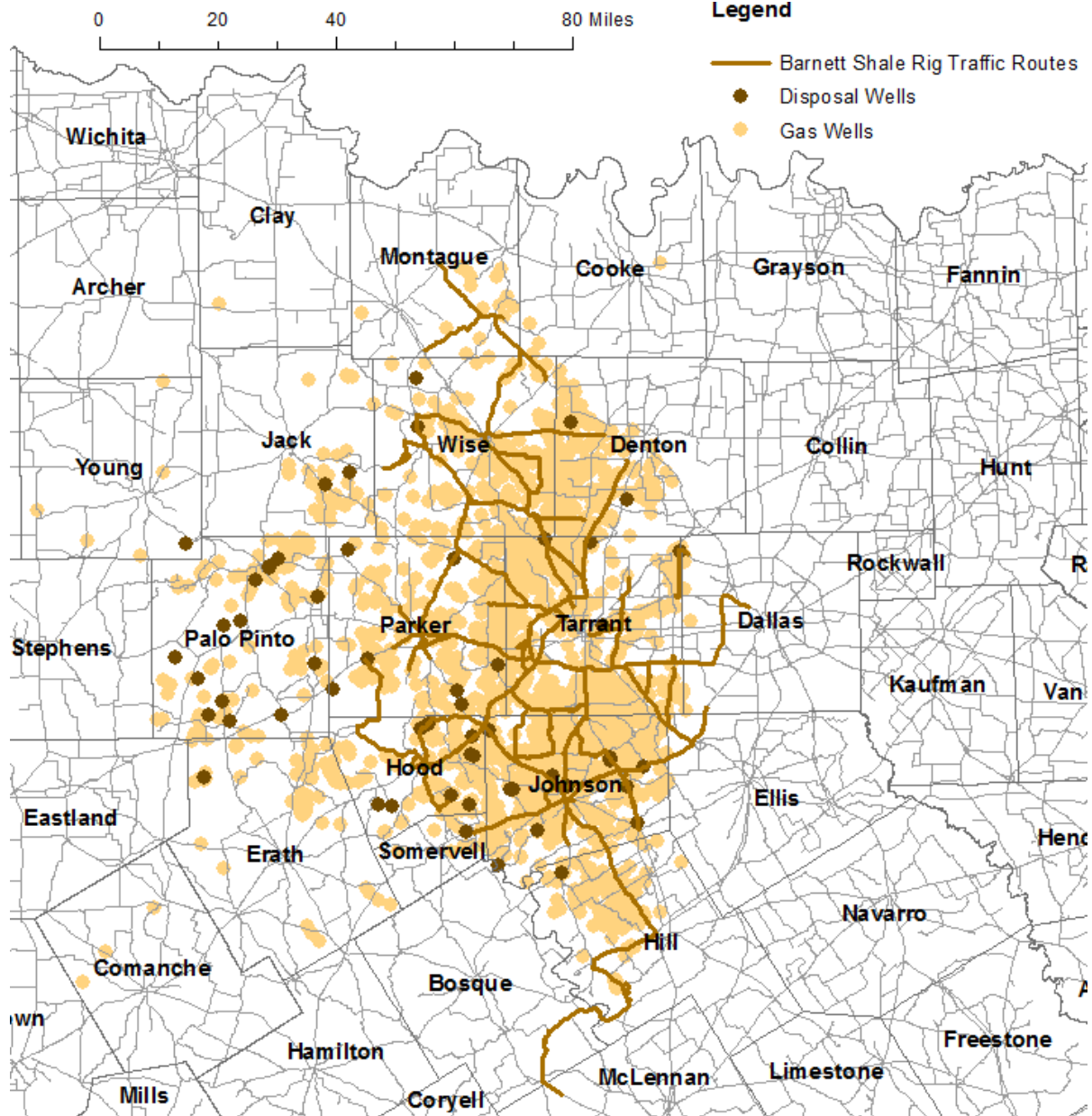
All the information regarding location of key energy facility installations were obtained from the Texas Railroad Commission (RRC). Some of this was queried through a feature that was earlier available on their website but RRC decided to take that feature out sometime in 2010. The rest of the information was obtained through Open Records Request and from RRC staff.

Maps of the Data Provided on DVD

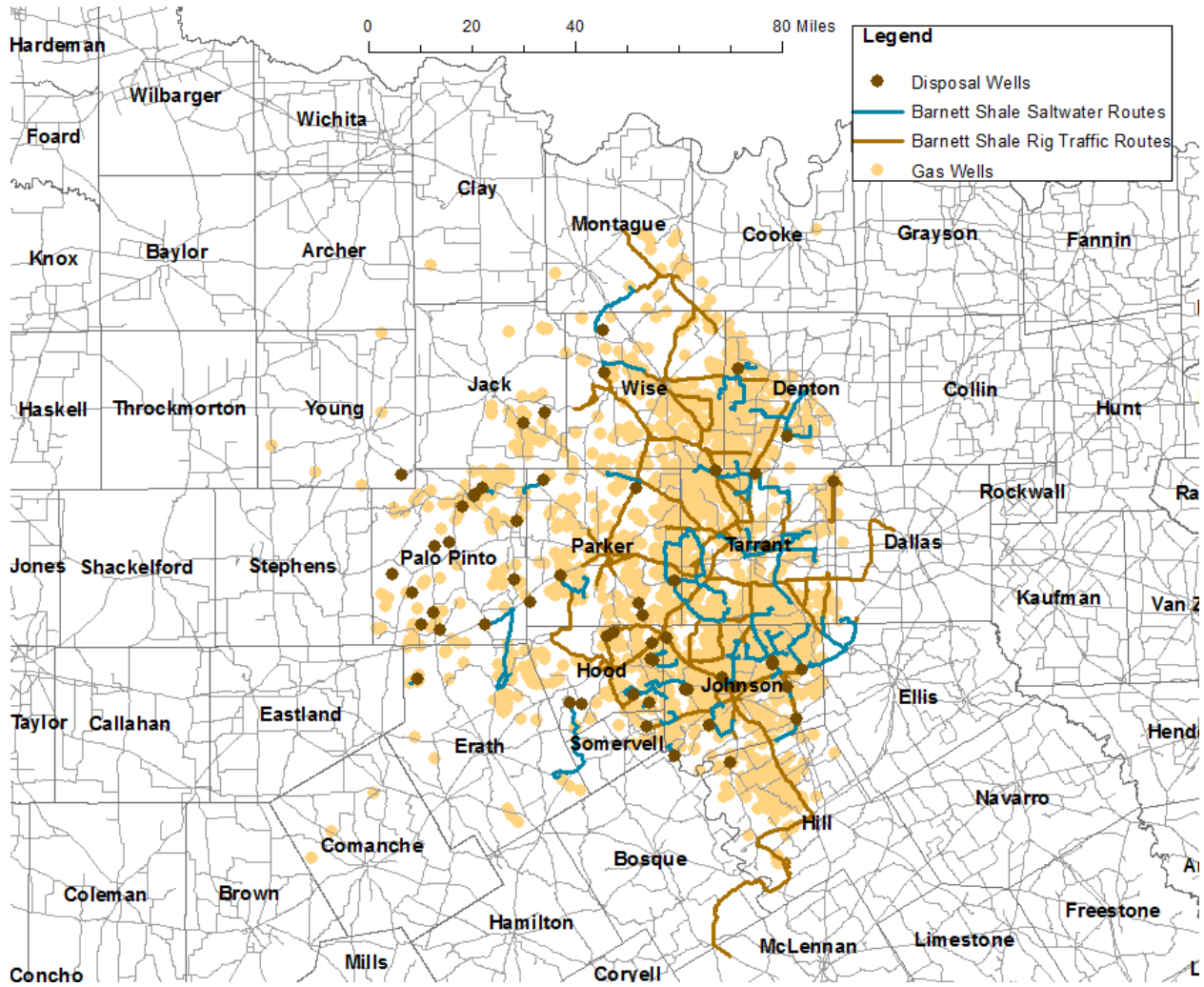
Energy Facilities



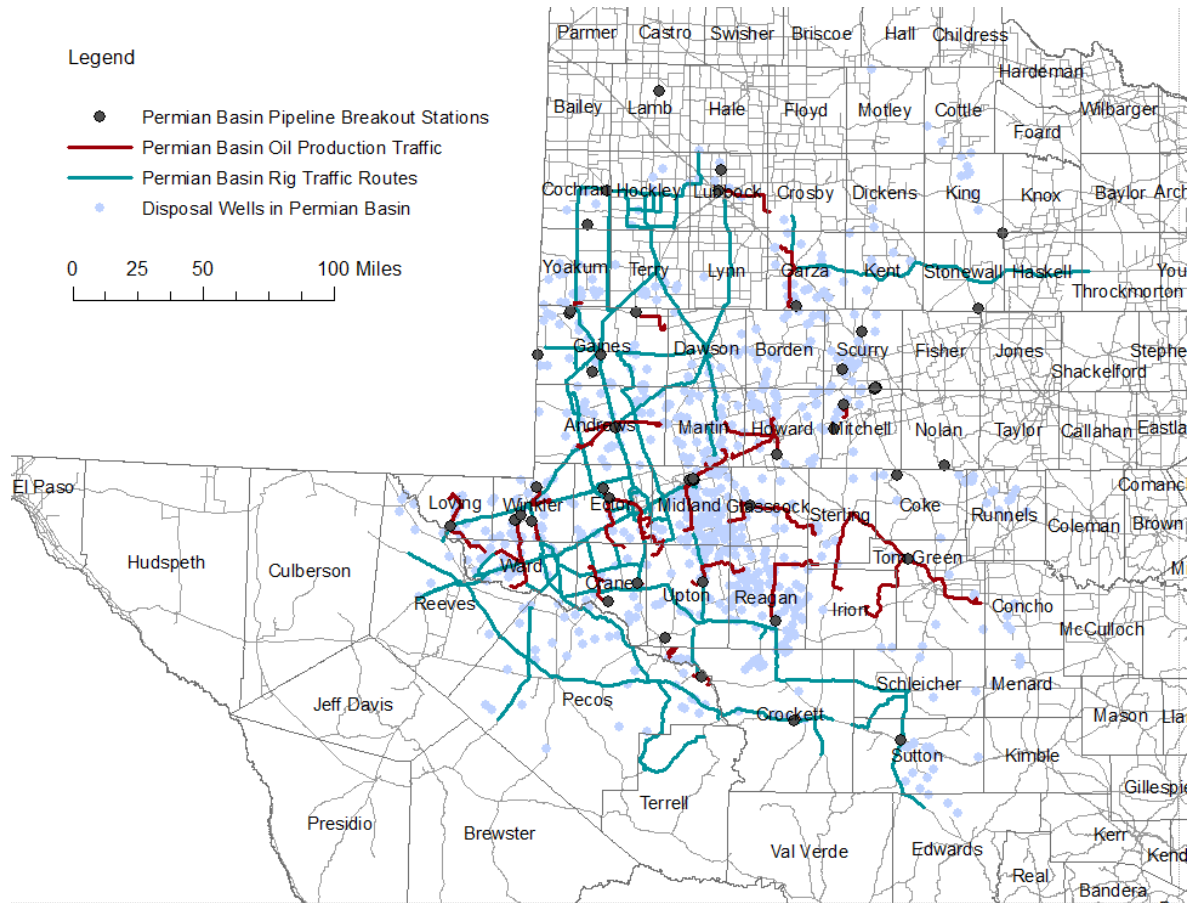
Barnett Shale Rig Traffic and Disposal and Gas Wells



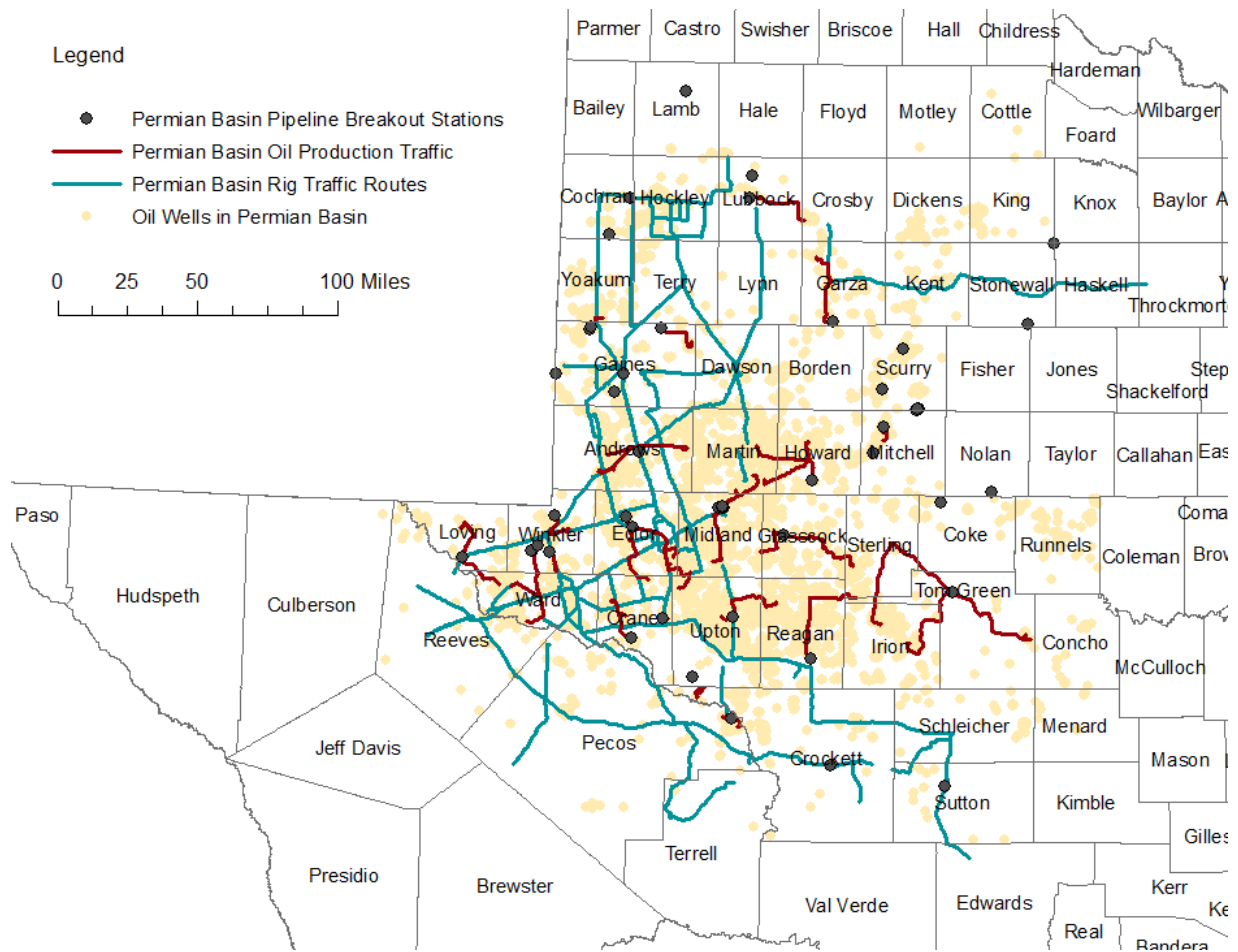
Barnett Shale Rig and Saltwater Traffic Routes and Disposal and Gas Wells



Permian Basin Rig and Oil Production Routes, Disposal Wells and Pipeline Breakout Stations



Permian Basin Rig and Oil Production Routes, Oil Wells and Pipeline Breakout Stations



Wind Turbine Facilities and Routes

