

NEVADA OIL AND GAS WELL DATABASE MAP

NEVADA BUREAU OF MINES AND GEOLOGY

Open-file Report 2001-07

NBMG NVOILWEL

2001

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This information should be considered preliminary. It has not been edited or checked for completeness or accuracy. The original NVOILWEL data base is maintained in PC-File database format. UTM location coordinates were added to the NVOILWEL database and then used to generate shapefiles in ARCVIEW version 3.2a for development of the Nevada Oil and Gas Well database map.

Oil well location accuracy to 1:100,000 scale. These data should not be plotted at a scale greater than 1:100,000. This data set is in UTM, zone 11, NAD 27 projection. The shape file version of this data set is located in the shape file directory. The base data shapefiles listed below are also located in the shapefile directory. A dBase version of this database is located in the dBase directory and includes the 1996 version of this data set as well. Also included in the Read1st directory are several text files that list the oil and gas wells included in this release.

The database attributes associated with this release of the Nevada Oil and Gas Well database include:

API: American Petroleum Institute ID number
County: County name
Permit: State permit number
Operator: Company that drilled or currently operates well
Well: Well name
S: Section number
T: Township
R: Range
Partsect: Quarter section location
Distfromli: Distance from section line in feet
Permit_iss: Drilling Permit issue date
Compl_date: Date well completed
Td: Total depth drilled
Elevation: Elevation of well in feet
Tops: Geologic tops and markers in feet from surface
Tests: Listing of DSTs and intervals tested

Logs: Listing of logs and intervals available at NBMG
 Samples: Listing of samples available at NBMG
 Show: Shows noted for well
 Conf: Confidential Status
 Plot: Legend field for plotting wells
 Status: Current status of well
 Oil_field: Name of oil field
 UTMN: UTM northing, zone 11, NAD27, meters
 UTME: UTM easting, zone 11, NAD 27, meters

As part of the digital data release for this project, several digital base layers of Nevada data in Shapefile and Arc/Info export file format, designed to be used at 1:1,000,000 scale, are included on the CDROM with this project. They are:

County_p.shp	Statewide county polygon coverage
County_a.shp	Statewide county boundary arc coverage
Cities.shp	Major towns in Nevada
Roads_a.shp	Major roads in Nevada
nv_1x2.shp	Polygon coverage of 1x2 degree USGS topographic map boundaries
nvqdp.shp	Polygon coverage of 7.5 minute USGS topographic map boundaries
tr_p.shp	Township and Range polygon coverage
tr_a.shp	Township and Range arc coverage

ARC/INFO export files of the above coverages are located in the E00 files directory.

A 1:1,000,000-scale, black and white, georeferenced raster graphic of the Nevada state base map is located in the NV_DRG directory.

Also included are 18 USGS digital raster graphic maps (DRG), 1:250,000-scale, topographic maps in tiffw format. Each map covers an area of 1 by 2 degrees of latitude and longitude. This set of scanned maps covers all of Nevada. The maps are georeferenced in UTM, zone 11, NAD 27 projection and can be used with various GIS and graphic software applications. These map files are located in the DRGs1x2 directory. The names of these map files are:

Caliente.tif
 Death_Valley.tif
 Elko.tif
 Ely.tif
 Goldfield.tif
 Kingman.tif
 Las_Vegas.tif
 Lovelock.tif
 Lund.tif
 Mariposa.tif
 McDermitt.tif
 Millett.tif
 Reno.tif
 Tonopah.tif
 Vya.tif
 Walker_Lake.tif

- Wells.tif
- Winnemucca.tif

Each of the above files has an additional file by the same name but ending with ".tfw". This is the world file that contains projection information for each raster graphic map.

FGDC Metadata are located in the metadata directory. This readme file is located in the READ1st directory and in the root directory. A black-and-white and a color version of the Oil and Gas Well location map in jpeg format is located in the directory called graphic. ARCEXPLORER, free viewing software, is located in the software directory. Also located in the software directory is a readme file "Free viewing software.htm" that should be read before installing the software. It lists the capabilities of and limitations of ARCEXPLORER.

NVOILWEL Abbreviations

STATUS

A - Abandoned
 P & A - Plugged and Abandoned
 Conf. - Confidential
 D & A - Drilled and Abandoned
 J & A - Junked and Abandoned
 NYD - Not Yet Drilled

AGES

Prec. - Precambrian
 Pal. - Paleozoic
 Mes. - Mesozoic
 Cen. - Cenozoic
 Camb. - Cambrian
 Ord. - Ordovician
 Sil. - Silurian
 Dev. - Devonian
 Miss. - Mississippian
 Penn. - Pennsylvanian
 Perm. - Permian
 Tri. - Triassic
 Jur. - Jurassic
 Cret. - Cretaceous
 Tert. - Tertiary
 Quat. - Quaternary

FORMATIONS

Lithology	Formal	Informal
Group	Gp.	gp.

Formation	Fm.	fm.	
Member	Mbr.	mbr.	REMARKS
Sandstone	Ss.	ss.	
Siltstone	Sts.	sts.	ft - feet
Shale	Sh.	sh.	DF - derrick floor
Limestone	Ls.	ls.	KB - kelly brushing
Dolomite	Dol.	dol.	TD - total depth
Conglomerate	Cgl.	cgl.	GPM - gallons per minute
Quartzite	Qtz.	qtz.	BWPD - barrels water per day
Volcanics	Volc.	volc.	MCF - thousand cubic feet
Fanglomerate	Fgl.	fgl.	bbls. - barrels
			BPM - barrels per minute

NBMG - Nevada Bureau of Mines and Geology

This database map updates the well-drilling data in:

Garside, L., Hess, R.H., Fleming, K., Weimer, B., 1986, "Oil and Gas Developments in Nevada", Nevada Bureau of Mines and Geology Bulletin 104.

Bulletin 104 is located on this CDROM, in pdf format, in the Bull_104 directory.

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NBMG METADATA COVERAGE REPORT

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COV_NAME: nvoil_01.shp
AREA COVERED: Nevada
COVER LOCATION: /shapefile/
RELATED FILES/COVERAGES: nvoil_01.e00, map_color.jpg, map_b_w.jpg
SOURCE MATERIAL: generated point coverage from dBase file.

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NBMG METADATA COVERAGE REPORT

KEYWORDS: oil gas

METADATA CREATION/UPDATE: 04/22/97, 11/18/99, 03/09/2000, 12/3/2001

COV_NAME: nvoil_01
AREA COVERED: Nevada
SHORT DESCRIPTION: oil/gas map for the state of Nevada
LONG DESCRIPTION: Oil and Gas Well map of Nevada.
DATE CREATED: 11/01/2001
FEATURE TYPES: points
PRECISION: single
NUMBER OF RECORDS: pat = 742
NUMBER OF FIELDS: pat = 26
ATTRIBUTES: pat = info about each well, incl. api, county, state permit#, operator, well, section/township/range/partial section, distance from line, permit issue date, completion date, total depth, elevation, tops, test intervals, log intervals, samples, shows, confidential status, plot symbol type, status, oil field, UTM easting, UTM northing.
SYSTEM: PC running Windows 98
SOFTWARE: ArcView 3.2a
PROJECTION: UTM
PROJECTION UNITS: meters
DATUM: NAD27
PROJECTION SPECIFICS: zone 11, north
DATA REFERENCE: NBMG Oil and Gas Well Data Base Catalogue.
SOURCE MATERIAL: generated point coverage from dBase file.
SOURCE SCALE: 1:100,000 for point locations.
SOURCE PROJECTION:
SOURCE DATE: 11/01/01
COMMENTS: Original database source generated from NBMG Oil and Gas Well public file collection. Digital coordinates developed by plotting Township/Range/Section coordinates at 1:100,000 scale.
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