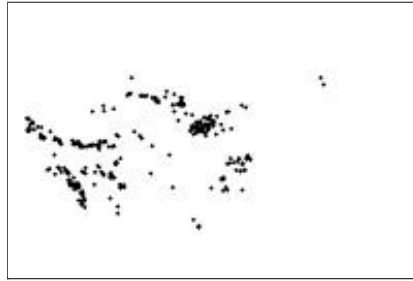


# SAsia\_Phos\_sites

## File Geodatabase Feature Class



### Tags

phosphate deposits, phosphate occurrences, phosphate showings, spatial database, southern Asia, Afghanistan, China, Iran, Kyrgyzstan, Pakistan, Tajikistan, Turkmenistan, Uzbekistan

### Summary

The spatial database "SAsia\_Phos\_sites" was prepared as part of a resource assessment of phosphate in Afghanistan and adjacent countries. Spatial and descriptive data for deposits, occurrences and showings of phosphate in Afghanistan and adjacent countries are stored in the Esri feature class "SAsia\_Phos\_sites" for use in a geographic information system (GIS). Multiple records at the same location represent resources with different ages of mineralization.

### Description

Within Afghanistan, a handful of known occurrences and reports indicate the presence of phosphate in Permian, Cretaceous, and Paleogene sediments and in carbonatite. With the exception of the Khanneshin Carbonatite, very little is known about these occurrences. In the countries surrounding Afghanistan, economic phosphate is known to occur in Cambrian, Devonian, and Paleogene sediments and in Kiruna-type Fe-apatite deposits. Many of the host units may extend into Afghanistan or equivalent units may be present. Although the possibility of economic phosphate deposits exist for Afghanistan, the need for detailed exploration for phosphate, the remoteness of some locations, and the probability that a deposit would not be exposed at the surface mean that one or more deposits are not likely to be identified in the near future. Even if a phosphate-bearing deposit is identified in Afghanistan, it is not clear if the probable size, thickness, and grade ranges would allow economic development of the hypothesized resource.

Within the study area, economic or sub economic phosphate is known to occur in marine sediments of Neoproterozoic-Cambrian, Devonian, and Paleogene sediments. Additional occurrences have been identified in Ordovician, Permian, Triassic, Jurassic, and Miocene sediments. In addition to phosphate deposits and occurrences associated with carbonatites, phosphate is mined from a Kiruna-type Fe-apatite deposit at Esfordi in Iran. Additional occurrences are associated with alkaline igneous rocks, mafic-ultramafic rocks, and volcanic rocks.

### Credits

Greta J. Orris compiled the data in an Excel spreadsheet format. Pamela Dunlap imported the data into an Esri file geodatabase feature class, standardized the data, made minor revisions, and wrote the metadata.

### Use limitations

There are no access and use limitations for this item.

### Extent

**West** 44.650000 **East** 93.450000  
**North** 47.733500 **South** 25.233300

### Scale Range

**Maximum (zoomed in)** 1:5,000  
**Minimum (zoomed out)** 1:150,000,000

## ArcGIS Metadata ►

### Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE geoscientificInformation

\* CONTENT TYPE Downloadable Data  
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

*Hide Topics and Keywords ▲*

### Citation ►

\* TITLE SAsia\_Phos\_sites  
ALTERNATE TITLES Phosphate deposits, occurrences and showings in southern Asia  
CREATION DATE 2014-09-16 00:00:00  
PUBLICATION DATE 2015-03-03 00:00:00

PRESENTATION FORMATS \* digital map  
FGDC GEOSPATIAL PRESENTATION FORMAT map

SERIES  
NAME Open-File Report  
ISSUE 2015-1121

COLLECTION TITLE Phosphorite occurrence and potential in the region of Afghanistan, including parts of China, Iran, Kyrgyzstan, Pakistan, Tajikistan, Turkmenistan, and Uzbekistan

#### OTHER CITATION DETAILS

Orris, G.J., Dunlap, Pamela, and Wallis, J.C., 2015, Phosphate occurrence and potential in the region of Afghanistan, including parts of China, Iran, Kyrgyzstan, Pakistan, Tajikistan, Turkmenistan, and Uzbekistan, with a section on Geophysics by Jeff Wynn: U.S. Geological Survey Open-File Report 2015-1121, 70 p., and digital data, <http://dx.doi.org/10.3133/ofr20151121>.

*Hide Citation ▲*

### Citation Contacts ►

RESPONSIBLE PARTY  
INDIVIDUAL'S NAME Greta J. Orris  
ORGANIZATION'S NAME U.S. Geological Survey  
CONTACT'S POSITION Research Geologist  
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE  
VOICE 520-670-5583

ADDRESS  
TYPE postal  
DELIVERY POINT 520 N Park Ave., Ste. 355  
CITY Tucson  
ADMINISTRATIVE AREA Arizona  
POSTAL CODE 85719  
COUNTRY US  
E-MAIL ADDRESS greta@usgs.gov

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ►

DATASET LANGUAGES \* English (UNITED STATES)  
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE \* vector

\* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

### CREDITS

Greta J. Orris compiled the data in an Excel spreadsheet format. Pamela Dunlap imported the data into an Esri file geodatabase feature class, standardized the data, made minor revisions, and wrote the metadata.

### ARCGIS ITEM PROPERTIES

\* NAME SAsia\_Phos\_sites  
\* LOCATION file: ~\GIS\_SAsia\_phosphate\Phosphate.gdb

[Hide Resource Details ▲](#)

## Extents ►

### EXTENT

#### DESCRIPTION

The deposits and occurrences of phosphate mineralization occur in southern Asia, in Afghanistan and surrounding countries.

#### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE 44.650000

\* EAST LONGITUDE 93.450000

\* NORTH LATITUDE 47.733500

\* SOUTH LATITUDE 25.233300

\* EXTENT CONTAINS THE RESOURCE Yes

#### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 44.650000

\* EAST LONGITUDE 93.450000  
\* SOUTH LATITUDE 25.233300  
\* NORTH LATITUDE 47.733500  
\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Maintenance ►

RESOURCE MAINTENANCE  
UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

## Spatial Reference ►

ARCGIS COORDINATE SYSTEM

\* TYPE Geographic  
\* GEOGRAPHIC COORDINATE REFERENCE GCS\_WGS\_1984  
\* COORDINATE REFERENCE DETAILS  
GEOGRAPHIC COORDINATE SYSTEM  
WELL-KNOWN IDENTIFIER 4326  
X ORIGIN -400  
Y ORIGIN -400  
XY SCALE 999999999.99999988  
Z ORIGIN -100000  
Z SCALE 10000  
M ORIGIN -100000  
M SCALE 10000  
XY TOLERANCE 8.983152841195215e-009  
Z TOLERANCE 0.001  
M TOLERANCE 0.001  
HIGH PRECISION true  
LEFT LONGITUDE -180  
LATEST WELL-KNOWN IDENTIFIER 4326  
WELL-KNOWN TEXT GEOGCS["GCS\_WGS\_1984",DATUM["D\_WGS\_1984",SPHEROID  
["WGS\_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT  
["Degree",0.0174532925199433],AUTHORITY["EPSG",4326]]

REFERENCE SYSTEM IDENTIFIER

\* VALUE 4326  
\* CODESPACE EPSG  
\* VERSION 8.2.6

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME SAsia\_Phos\_sites  
\* OBJECT TYPE point  
\* OBJECT COUNT 446

[Hide Vector ▲](#)

#### ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME SAsia\_Phos\_sites

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Point

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 446

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING FALSE

*Hide ArcGIS Feature Class Properties ▲*

*Hide Spatial Data Properties ▲*

## Lineage ►

#### LINEAGE STATEMENT

Data were compiled from numerous source references (listed by author and year in the field "All\_Refs"). Full citations are provided in the Esri file geodatabase standalone table "Citations;" they are NOT provided in this metadata file.

#### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-03-03 00:00:00

##### DESCRIPTION

Data were imported from an Excel spreadsheet into an Esri file geodatabase as a feature class, and then proofed, standardized, and revised accordingly.

#### PROCESS CONTACT

INDIVIDUAL'S NAME Pamela Dunlap

ORGANIZATION'S NAME U.S. Geological Survey

CONTACT'S POSITION Geologist

CONTACT'S ROLE processor

*Hide Process step ▲*

*Hide Lineage ▲*

## Distribution ►

#### DISTRIBUTOR ►

##### CONTACT INFORMATION

ORGANIZATION'S NAME U.S. Geological Survey

CONTACT'S ROLE distributor

##### CONTACT INFORMATION ►

###### PHONE

VOICE 1-888-275-8747

VOICE 1-888-ASK-USGS

###### ADDRESS

TYPE postal

DELIVERY POINT Denver Federal Center, P.O. Box 25286

CITY Denver

ADMINISTRATIVE AREA Colorado

POSTAL CODE 80225

COUNTRY US  
E-MAIL ADDRESS [infoservices@usgs.gov](mailto:infoservices@usgs.gov)

[Hide Contact information ▲](#)

#### TRANSFER OPTIONS

UNITS OF DISTRIBUTION Megabytes  
TRANSFER SIZE 19.4

#### ONLINE SOURCE

LOCATION <http://dx.doi.org/10.3133/ofr20151121>

[Hide Distributor ▲](#)

#### DISTRIBUTION FORMAT

\* NAME File Geodatabase Feature Class

VERSION ArcGIS 10.2

SPECIFICATION File Geodatabase Feature Class is provided in a compressed archive ZIP file -- ofr20151121\_gis.zip.

FILE DECOMPRESSION TECHNIQUE To extract data from a compressed ZIP archive, double-click on the archive listed in My Computer or Windows Explorer, OR drag and drop the archive onto WINZIP (or comparable uncompression software such as IZArc or 7-Zip), OR use the standard Open dialogue box.

FORMAT INFORMATION CONTENT ofr20151121\_gis.zip contains the Esri File Geodatabase "Phosphate.gdb" (phosphate resource assessment GIS), and metadata in PDF format.

[Hide Distribution ▲](#)

## Fields ►

#### DETAILS FOR OBJECT [SAsia\\_Phos\\_sites ►](#)

\* TYPE Feature Class

\* ROW COUNT 446

#### FIELD OBJECTID ►

\* ALIAS OBJECTID

\* DATA TYPE OID

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Internal feature number.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID ▲](#)

#### FIELD SHAPE ►

\* ALIAS SHAPE

\* DATA TYPE Geometry

- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Feature geometry.
- \* DESCRIPTION SOURCE  
Esri
- \* DESCRIPTION OF VALUES  
Coordinates defining the features.

*Hide Field SHAPE ▲*

FIELD ID\_No ►

- \* ALIAS ID number
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION  
Unique identification number for data record.

*Hide Field ID\_No ▲*

FIELD Country ►

- \* ALIAS Country
- \* DATA TYPE String
- \* WIDTH 20
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION  
Country in which site is located.

DESCRIPTION SOURCE

United Nations, 2013, Composition of macro geographical (continental) regions, geographical sub-regions, and selected economic and other groupings: U.N. Statistics Division, accessed May 27, 2014, at <http://unstats.un.org/unsd/methods/m49/m49regin.htm>.

*Hide Field Country ▲*

FIELD Province ►

- \* ALIAS Province
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0
- FIELD DESCRIPTION  
Province or region (first-order political subdivision of country) in which site is located.

DESCRIPTION SOURCE

Hijmans, Robert, 2011, Global administrative areas; GADM database (ver. 2.0): accessed January 23, 2013, at <http://www.gadm.org>.

[Hide Field Province](#) ▲

FIELD Name ►

\* ALIAS Name  
\* DATA TYPE String  
\* WIDTH 50  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Site name; sites may include mines, deposits, occurrences, structures, mineralized areas, and (or) districts.

[Hide Field Name](#) ▲

FIELD Name\_Other ►

\* ALIAS Other Names  
\* DATA TYPE String  
\* WIDTH 100  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Alternate site name(s).

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field Name\\_Other](#) ▲

FIELD Latitude ►

\* ALIAS Latitude  
\* DATA TYPE Double  
\* WIDTH 8  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Latitude, positive number for north of the equator.

RANGE OF VALUES

UNITS OF MEASURE decimal degrees

[Hide Field Latitude](#) ▲

FIELD Longitude ►

\* ALIAS Longitude  
\* DATA TYPE Double  
\* WIDTH 8  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Longitude, positive number for east of the Greenwich meridian.

RANGE OF VALUES

UNITS OF MEASURE decimal degrees

[Hide Field Longitude](#) ▲



FIELD **Loc\_Notes** ►

- \* **ALIAS** Location Comments
- \* **DATA TYPE** String
- \* **WIDTH** 200
- \* **PRECISION** 0
- \* **SCALE** 0

**FIELD DESCRIPTION**

Notes or comments about location.

**LIST OF VALUES**

**VALUE** NULL

**DESCRIPTION** Null entry indicates no data.

*Hide Field Loc\_Notes ▲*

FIELD **Loc\_Refs** ►

- \* **ALIAS** Location References
- \* **DATA TYPE** String
- \* **WIDTH** 75
- \* **PRECISION** 0
- \* **SCALE** 0

**FIELD DESCRIPTION**

Abbreviated citation for source reference for location given in Latitude and Longitude fields; full citation is provided in the standalone file geodatabase table "Citations."

**LIST OF VALUES**

**VALUE** NULL

**DESCRIPTION** Null entry indicates no data.

*Hide Field Loc\_Refs ▲*

FIELD **Mzn\_Area** ►

- \* **ALIAS** Area of Mineralization
- \* **DATA TYPE** String
- \* **WIDTH** 50
- \* **PRECISION** 0
- \* **SCALE** 0

**FIELD DESCRIPTION**

Name of area, district, deposit, mountain range or other location in which site occurs, if reported in source reference(s).

**LIST OF VALUES**

**VALUE** NULL

**DESCRIPTION** Null entry indicates no data.

*Hide Field Mzn\_Area ▲*

FIELD **Status** ►

- \* **ALIAS** Site Status
- \* **DATA TYPE** String
- \* **WIDTH** 30
- \* **PRECISION** 0
- \* **SCALE** 0

**FIELD DESCRIPTION**

Site status, queried where uncertain.

#### LIST OF VALUES

VALUE Deposit

DESCRIPTION A site that has known or identified resources/reserves of phosphate, or is a producer or past producer of phosphate.

VALUE Occurrence

DESCRIPTION A site that has no known production or quantified reserves or resources, and for which basic geologic and (or) exploration information is available.

VALUE Showing

DESCRIPTION A phosphate site with little or no reported geologic or exploration data, and no known production or quantified reserves or resources.

VALUE Deposit(?)

DESCRIPTION A site that has known or identified resources/reserves of phosphate, or is a producer or past producer of phosphate; queried where uncertain.

*Hide Field Status ▲*

#### FIELD Commods ►

\* ALIAS Commodities

\* DATA TYPE String

\* WIDTH 25

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Significant commodities present, queried where uncertain. Listed in perceived order of (economic) significance, based on source references.

#### LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

*Hide Field Commods ▲*

#### FIELD Dep\_Type ►

\* ALIAS Deposit Type

\* DATA TYPE String

\* WIDTH 75

\* PRECISION 0

\* SCALE 0

#### FIELD DESCRIPTION

Phosphate deposit type(s) most likely to be present, queried where uncertain.

#### LIST OF VALUES

VALUE carbonatite

VALUE carbonatite-associated

VALUE Kiruna

VALUE igneous

VALUE igneous-related, hydrothermal

VALUE metasedimentary

VALUE sedimentary

VALUE sedimentary, metasedimentary

VALUE sedimentary-redeposited

VALUE unknown

[Hide Field Dep\\_Type ▲](#)

FIELD Phos\_Form ►

\* ALIAS Phosphate Form

\* DATA TYPE String

\* WIDTH 75

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Form(s) of phosphate mineralization, queried where uncertain.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field Phos\\_Form ▲](#)

FIELD Age\_Ma ►

\* ALIAS Age

\* DATA TYPE String

\* WIDTH 25

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Chronologic age of phosphate mineralization.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

RANGE OF VALUES

UNITS OF MEASURE Ma, mega-annum

[Hide Field Age\\_Ma ▲](#)

FIELD MznAge\_Max ►

\* ALIAS Maximum Mineralization Age

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Oldest geologic age of potash mineralization, queried where uncertain. Listed in the format Era-System-Series-Stage, where known.

DESCRIPTION SOURCE

Cohen, K.M., Finney, S.C., Gibbard, P.L., and Fan, J.-X., 2013, The ICS international chronostratigraphic chart: Episodes, v. 36, p. 199–204. (Also available at

<http://www.episodes.co.in/contents/2013/september/p199-204.pdf>).

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field MznAge\\_Max ▲](#)

FIELD [MznAge\\_Min ►](#)

\* ALIAS Minimum Mineralization Age

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Youngest geologic age of potash mineralization, queried where uncertain. Listed in the format Era-System-Series-Stage, where known.

DESCRIPTION SOURCE

Cohen, K.M., Finney, S.C., Gibbard, P.L., and Fan, J.-X., 2013, The ICS international chronostratigraphic chart: Episodes, v. 36, p. 199–204. (Also available at <http://www.episodes.co.in/contents/2013/september/p199-204.pdf>).

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field MznAge\\_Min ▲](#)

FIELD [HAge\\_Max ►](#)

\* ALIAS Maximum Host Rock Age

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Oldest geologic age of host rock, queried where uncertain. Listed in the format Era-System-Series-Stage, where known.

DESCRIPTION SOURCE

Cohen, K.M., Finney, S.C., Gibbard, P.L., and Fan, J.-X., 2013, The ICS international chronostratigraphic chart: Episodes, v. 36, p. 199–204. (Also available at <http://www.episodes.co.in/contents/2013/september/p199-204.pdf>).

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field HAge\\_Max ▲](#)

FIELD [HAge\\_Min ►](#)

\* ALIAS Minimum Host Rock Age

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Youngest geologic age of host rock, queried where uncertain. Listed in the format Era-System-Series-Stage, where known.

DESCRIPTION SOURCE

Cohen, K.M., Finney, S.C., Gibbard, P.L., and Fan, J.-X., 2013, The ICS international chronostratigraphic chart: Episodes, v. 36, p. 199–204. (Also available at <http://www.episodes.co.in/contents/2013/september/p199-204.pdf>).

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

*Hide Field HAge\_Min ▲*

FIELD Host\_Lith ►

\* ALIAS Host Rock Lithology

\* DATA TYPE String

\* WIDTH 175

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Host rock lithology; multiple lithologies are comma-delimited.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

*Hide Field Host\_Lith ▲*

FIELD Host\_Fm ►

\* ALIAS Host Formation

\* DATA TYPE String

\* WIDTH 100

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Formal or informal name of host rock formation or other name, queried where uncertain.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

*Hide Field Host\_Fm ▲*

FIELD Minerals ►

\* ALIAS Minerals

\* DATA TYPE String

\* WIDTH 150

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Significant minerals and materials known to be present, queried where uncertain.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field Minerals ▲](#)

FIELD [Geol\\_Notes ▶](#)

\* [ALIAS](#) Geologic Comments  
\* [DATA TYPE](#) String  
\* [WIDTH](#) 300  
\* [PRECISION](#) 0  
\* [SCALE](#) 0

[FIELD DESCRIPTION](#)

Additional geologic information.

[LIST OF VALUES](#)

[VALUE](#) NULL

[DESCRIPTION](#) Null entry indicates no data.

[Hide Field Geol\\_Notes ▲](#)

FIELD [Geol\\_Note1 ▶](#)

\* [ALIAS](#) Geol\_Note1  
\* [DATA TYPE](#) String  
\* [WIDTH](#) 254  
\* [PRECISION](#) 0  
\* [SCALE](#) 0

[FIELD DESCRIPTION](#)

Additional geologic information, first 254 characters. [See Geol\_Note2 field for continuation of entry.]

[LIST OF VALUES](#)

[VALUE](#) NULL

[DESCRIPTION](#) Null entry indicates no data.

[Hide Field Geol\\_Note1 ▲](#)

FIELD [Geol\\_Note2 ▶](#)

\* [ALIAS](#) Geol\_Note2  
\* [DATA TYPE](#) String  
\* [WIDTH](#) 254  
\* [PRECISION](#) 0  
\* [SCALE](#) 0

[FIELD DESCRIPTION](#)

Additional geologic information, continued from Geol\_Note1 field.

[LIST OF VALUES](#)

[VALUE](#) NULL

[DESCRIPTION](#) Null entry indicates no data.

[Hide Field Geol\\_Note2 ▲](#)

FIELD [Anal\\_Data ▶](#)

\* [ALIAS](#) Analytical Data  
\* [DATA TYPE](#) String  
\* [WIDTH](#) 125  
\* [PRECISION](#) 0  
\* [SCALE](#) 0

[FIELD DESCRIPTION](#)

Reported analytical data; en dash indicates range of values.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field Anal\\_Data ▲](#)

FIELD Age\_Refs ►

\* ALIAS Age References

\* DATA TYPE String

\* WIDTH 100

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Abbreviated citation for source reference for age of mineralization; full citation is provided in the standalone file geodatabase table "Citations."

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field Age\\_Refs ▲](#)

FIELD Prod\_Status ►

\* ALIAS Production Status

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Known status with respect to being a producer of phosphate.

LIST OF VALUES

VALUE Active producer

DESCRIPTION Producer of phosphate, as P2O5.

VALUE Byproduct producer(?)

DESCRIPTION Producer (uncertain) of phosphate, as byproduct P.

VALUE No production

DESCRIPTION No production of phosphate.

VALUE Past producer

DESCRIPTION Past producer of phosphate, as P2O5.

VALUE Under development (2014)

DESCRIPTION Under development in 2014 for future production of phosphate.

VALUE Unknown

DESCRIPTION Production of phosphate not known.

[Hide Field Prod\\_Status ▲](#)

FIELD First\_Prod ►

\* ALIAS Year of First Production

\* DATA TYPE SmallInteger

\* WIDTH 2

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Year of first production.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field First\\_Prod ▲](#)

FIELD Cum\_Prod ►

\* ALIAS Cumulative Production

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Reported cumulative production.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field Cum\\_Prod ▲](#)

FIELD RsvRes ►

\* ALIAS Reserves\_Resources

\* DATA TYPE String

\* WIDTH 150

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Reported reserve and (or) resource data. Multiple entries are numbered and delimited by semicolons, numbers correspond to those used in "RsvRes\_Refs" field. Terminology is from source cited in RsvRes\_Refs field; data as reported may not meet National Instrument 43-101 or Joint Ore Reserves Committee (JORC) standards.

Abbreviations used:

Mt, million metric tons

Bt, billion metric tons

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field RsvRes ▲](#)

FIELD RsvRes\_Refs ►

\* ALIAS Reserve\_Resource References

\* DATA TYPE String

\* WIDTH 100

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Abbreviated citation for source reference for reserve and resource information; numbered entries correspond to numbered entries in "RsvRes" field; full citation is provided in the



standalone file geodatabase table "Citations."

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field RsvRes\\_Refs ▲](#)

FIELD Gen\_Notes ►

\* ALIAS General Comments

\* DATA TYPE String

\* WIDTH 200

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Additional information.

LIST OF VALUES

VALUE NULL

DESCRIPTION Null entry indicates no data.

[Hide Field Gen\\_Notes ▲](#)

FIELD All\_Refs ►

\* ALIAS All References

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Abbreviated citation(s) for source reference(s) used in compiling data; multiple citations are delimited by semicolons. Full citations are provided in the standalone file geodatabase table "Citations."

[Hide Field All\\_Refs ▲](#)

[Hide Details for object SAsia\\_Phos\\_sites ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

\* METADATA LANGUAGE English (UNITED STATES)

\* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA \* dataset

SCOPE NAME \* dataset

\* LAST UPDATE 2015-03-18

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2014-09-14 15:19:25  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-03-18 82:24:40

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2015-03-18 08:13:07

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

### METADATA CONTACT

INDIVIDUAL'S NAME Pamela Dunlap  
ORGANIZATION'S NAME U.S. Geological Survey  
CONTACT'S POSITION Geologist  
CONTACT'S ROLE author

### CONTACT INFORMATION ►

#### PHONE

VOICE 520-670-5573

#### ADDRESS

TYPE postal  
DELIVERY POINT 520 N Park Ave., Ste. 355  
CITY Tucson  
ADMINISTRATIVE AREA Arizona  
POSTAL CODE 85719  
COUNTRY US  
E-MAIL ADDRESS [pdunlap@usgs.gov](mailto:pdunlap@usgs.gov)