12/5/12 DATASHEETS

## The NGS Data Sheet

See file ds data.txt for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.00
        National Geodetic Survey, Retrieval Date = DECEMBER 5, 2012
GG0744 DESIGNATION - CHETOPA
GG0744 PID
                       GG0744
GG0744 STATE/COUNTY-
                       KS/LABETTE
GG0744 COUNTRY
                       US
GG0744 USGS QUAD
                    - WELCH NORTH (1971)
GG0744
                               *CURRENT SURVEY CONTROL
GG0744
GG0744
GG0744* NAD 83(1997) POSITION- 36 59 59.55570(N) 095 05 07.99141(W)
                                                                     ADJUSTED
GG0744* NAD 83(1997) ELLIP HT-
                               222.838 (meters)
                                                        (10/02/98)
                                                                     ADJUSTED
GG0744* NAVD 88 ORTHO HEIGHT -
                                252.43
                                         (+/-2cm)
                                                      828.2
                                                              (feet) VERTCON
GG0744
GG0744 GEOID HEIGHT
                                 -29.68
                                         (meters)
                                                                     GEOID12A
                           -452,095.948 (meters)
GG0744 NAD 83(1997) X -
                                                                     COMP
                                                                     COMP
GG0744 NAD 83(1997) Y - -5,080,102.206 (meters)
GG0744 NAD 83(1997) Z - 3,817,516.329 (meters)
                                                                     COMP
GG0744
        LAPLACE CORR
                                 -0.27
                                       (seconds)
                                                                     DEFLEC12A
GG0744 HORZ ORDER
                          SECOND
GG0744 VERT ORDER
                          THIRD ? (See Below)
                          FOURTH
GG0744 ELLP ORDER
                                    CLASS I
GG0744
GG0744. The horizontal coordinates were established by classical geodetic methods
GG0744.and adjusted by the National Geodetic Survey in October 1998.
GG0744.
GG0744. The NAVD 88 height was computed by applying the VERTCON shift value to
GG0744.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
GG0744
GG0744. The vertical order pertains to the NGVD 29 superseded value.
GG0744. The X, Y, and Z were computed from the position and the ellipsoidal ht.
GG0744. The Laplace correction was computed from DEFLEC12A derived deflections.
GG0744. The ellipsoidal height was determined by GPS observations
GG0744.and is referenced to NAD 83.
GG0744
GG0744. The following values were computed from the NAD 83(1997) position.
GG0744
GG0744;
                           North
                                        East
                                                 Units Scale Factor Converg.
GG0744; SPC KS S
                      442,546.943
                                     703,877.367
                                                  MT 1.00006314
                    - 1,451,922.76 2,309,304.33
                                                  sFT
GG0744; SPC KS S
                                                                    +2 05 53.8
                                                       1.00006314
                    - 4,096,891.796
                                     314,423.980
                                                                    -1 15 19.7
GG0744;UTM 15
                                                   MT
                                                       1.00002427
GG0744
GG0744!
                     Elev Factor x Scale Factor =
                                                       Combined Factor
GG0744!SPC KS S
                                      1.00006314 =
                       0.99996503 \times
                                                       1.00002817
GG0744!UTM 15
                       0.99996503 \times
                                       1.00002427 =
                                                       0.99998930
GG0744
                                                               Grid Az
GG0744:
                       Primary Azimuth Mark
GG0744:SPC KS S
                    - CHETOPA AZ MK
                                                               173 09 00.9
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12/5/12 DATASHEETS

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GG0744:UTM 15 - CHETOPA AZ MK
                                                                     176 30 14.4
GG0744
GG0744|--------
GG0744 | PID Reference Object
                                                      Distance Geod. Az |
                                                                      dddmmss.s l
GG0744| CI1435 CHETOPA RM 1
                                                       22.598 METERS 13607
GG0744 | CI1434 CHETOPA AZ MK
                                                                       1751454.7
GG0744| CI1436 CHETOPA RM 2
                                                       36.134 METERS 24435
GG0744| HE0748 CHETOPA MUNICIPAL TANK
                                                      APPROX. 4.5 KM 3474618.0 |
GG0744| CI1438 CHETOPA RM 4
                                                       20.274 METERS 35243
GG0744| CI1437 CHETOPA RM 3
                                                       20.275 METERS 35257
GG0744
GG0744
                                  SUPERSEDED SURVEY CONTROL
GG0744
GG0744 NAD 83(1993) - 36 59 59.55993(N) 095 05 07.99141(W) AD(
GG0744 NAD 83(1986) - 36 59 59.57394(N) 095 05 07.98129(W) AD(
GG0744 NAD 27 - 36 59 59.31974(N) 095 05 07.12678(W) AD(
GG0744 NGVD 29 (07/19/86) 252.32 (m)
                                                    827.8 (f) LEVELING 3
GG0744
GG0744. Superseded values are not recommended for survey control.
GG0744.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
GG0744. See file dsdata.txt to determine how the superseded data were derived.
GG0744
GG0744 U.S. NATIONAL GRID SPATIAL ADDRESS: 15SUA1442396891(NAD 83)
GG0744 MARKER: DS = TRIANGULATION STATION DISK
GG0744 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
GG0744 SP SET: CONCRETE POST
GG0744 STAMPING: CHETOPA 1958
GG0744 MARK LOGO: CGS
GG0744 MAGNETIC: N = NO MAGNETIC MATERIAL
GG0744 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
GG0744+STABILITY: SURFACE MOTION
GG0744 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
GG0744+SATELLITE: SATELLITE OBSERVATIONS - August 07, 2009
GG0744
GG0744 HISTORY - Date Condition
GG0744 HISTORY - 1958 MONUMENTED
                                                   Report By
                                                   CGS
GG0744 HISTORY
                    <del>-</del> 1958
                               GOOD
                                                   CGS
GG0744 HISTORY - 1964 GOOD

GG0744 HISTORY - 1967 GOOD

GG0744 HISTORY - 1967 GOOD

GG0744 HISTORY - 19890301 GOOD

GG0744 HISTORY - 19890720 GOOD

GG0744 HISTORY - 20090807 GOOD
                                                   CGS
                                                   CGS
                                                   CGS
                                                   NGS
                                                   NGS
                                                   KSDT
GG0744
GG0744
                                  STATION DESCRIPTION
GG0744
GG0744'DESCRIBED BY COAST AND GEODETIC SURVEY 1958 (RLE)
GG0744'THE STATION IS LOCATED ABOUT 8 MILES NORTH OF WELCH AND 2-1/2
GG0744'MILES SOUTH OF CHETOPA NEAR THE OKLAHOMA-KANSAS STATE LINE.
GG0744'IT IS 115 FEET NORTH OF THE CENTER OF A GRAVELED ROAD, 76
GG0744'FEET EAST OF THE CENTER OF U.S. HIGHWAY 59 AND 45 FEET NORTHWEST
GG0744'OF A POWER LINE BRACE POLE. THE MARK PROJECTS 4 INCHES
GG0744'ABOVE THE SURFACE OF THE GROUND AND IS STAMPED CHETOPA 1958.
GG0744'
GG0744'REFERENCE MARK NO. 1 IS 62 FEET NORTH OF THE CENTER OF A
GG0744'GRAVELED ROAD (STATE LINE ROAD), 58 FEET NORTHWEST OF A
GG0744'TELEPHONE POLE AND 31 FEET NORTHEAST OF A POWER LINE BRACE
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www.ngs.noaa.gov/cgi-bin/ds\_desig.prl

12/5/12

DATASHEETS GG0744'POLE. THE MARK PROJECTS 4 INCHES ABOVE THE SURFACE OF THE GG0744'GROUND AND IS STAMPED CHETOPA NO 1 1958. GG0744' GG0744'REFERENCE MARK NO. 2 IS 64 FEET NORTH OF THE CENTER OF A GG0744'GRAVELED ROAD, 32 FEET WEST OF THE CENTER OF U.S. HIGHWAY 59 GG0744'AND 1 FOOT NORTH OF A POWER LINE POLE. THE MARK PROJECTS GG0744'4 INCHES ABOVE THE SURFACE OF THE GROUND AND IS STAMPED GG0744'CHETOPA NO 2 1958. GG0744' GG0744'THE AZIMUTH MARK IS 72 FEET NORTH OF A FENCE CORNER, 48 FEET GG0744'EAST OF THE CENTER OF U.S. HIGHWAY 59, 2 FEET NORTH OF A WHITE GG0744'WITNESS POST AND 1 FOOT WEST OF AN EAST-WEST FENCE LINE. GG0744'THE MARK PROJECTS 4 INCHES ABOVE THE SURFACE OF THE GROUND GG0744'AND IS STAMPED CHETOPA 1958. GG0744' GG0744'TO REACH THE STATION FROM THE POST OFFICE IN CHETOPA GO EAST GG0744'ON U.S. HIGHWAYS 166 AND 59 FOR 0.1 MILE TO THE JUNCTION GG0744'OF THE HIGHWAYS. TURN RIGHT, SOUTH, ON U.S. HIGHWAY 59 AND GO GG0744'2.5 MILES TO THE STATION ON THE LEFT AS DESCRIBED. GG0744' GG0744'TO REACH THE AZIMUTH MARK FROM THE STATION CONTINUE STRAIGHT GG0744'AHEAD ON U.S. HIGHWAY 59 AND GO 0.35 MILE TO THE AZIMUTH MARK GG0744'ON THE LEFT AS DESCRIBED. GG0744' GG0744'HEIGHT OF LIGHT ABOVE STATION MARK 22.6 METERS. GG0744 GG0744 STATION RECOVERY (1958) GG0744 GG0744'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1958 GG0744'RECOVERED IN GOOD CONDITION. GG0744 GG0744 STATION RECOVERY (1964) GG0744 GG0744'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1964 (JKW) GG0744'THE STATION MARK, R.M. 1, R.M. 2 AND THE AZIMUTH MARK WERE GG0744'RECOVERED IN GOOD CONDITION. THE DISTANCES TO THE R.M.S WERE GG0744'VERIFIED. THE ORIGINAL DESCRIPTION IS ADEQUATE. GG0744 GG0744 STATION RECOVERY (1967) GG0744 GG0744'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (LFS) GG0744'STATION RECOVERED AS DESCRIBED AND ALL MARKS FOUND IN GOOD GG0744'CONDITION. R.M. NO. 2 WAS REPORTED TO BE IN THE WAY OF HIGHWAY GG0744'CONSTRUCTION SO THIS MARK WAS RESET. A NEW REFERENCE MARK GG0744'WAS ESTABLISHED AND IT WAS STAMPED NO 3. GG0744' GG0744'TO REACH THE STATION FROM CHETOPA, FROM THE JUNCTION OF GG0744'U.S. HIGHWAYS 59 AND 166, GO SOUTH ON U.S. 59 FOR 2.5 MILES GG0744'TO CROSSROADS AND STATION ON THE LEFT. GG0744' GG0744'THE STATION IS IN THE NORTHEAST ANGLE OF CROSSROADS, 115 FEET GG0744'NORTH OF THE STATE LINE ROAD, 76 FEET EAST OF THE CENTERLINE GG0744'OF U.S. 59, 45 FEET NORTHWEST OF A POWERLINE BRACE POLE GG0744'AND 1 FOOT WEST OF A METAL WITNESS POST. THE MARK PROJECTS GG0744'3 INCHES AND THE DISK IS STAMPED CHETOPA 1958. GG0744' GG0744'R.M. NO. 1 IS 62 FEET NORTH OF THE CENTERLINE OF THE STATE GG0744'LINE ROAD, 58 FEET NORTHWEST OF A TELEPHONE POLE AND 31 FEET

GG0744'INCHES AND THE DISK IS STAMPED CHETOPA NO 1 1958. GG0744'

GG0744'NORTHEAST OF A POWERLINE BRACE POLE. THE MARK PROJECTS 4

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GG0744'R.M. NO. 3 IS ABOUT 180 FEET NORTH OF THE CENTERLINE OF THE
GG0744'STATE LINE ROAD AND ABOUT 69 FEET EAST OF THE CENTERLINE OF
GG0744'U.S. 59. THE MARK PROJECTS 4 INCHES AND THE DISK IS STAMPED
GG0744'CHETOPA 1958 1967 NO 3.
GG0744'THE AZIMUTH MARK IS 72 FEET NORTH OF A FENCE CORNER, 48 FEET
GG0744'EAST OF THE CENTERLINE OF THE HIGHWAY, 1 FOOT WEST OF RIGHT OF
GG0744'WAY FENCE AND 1 FOOT NORTHWEST OF A METAL WITNESS POST.
GG0744'THE MARK PROJECTS 2 INCHES AND THE DISK IS STAMPED CHETOPA 1958.
GG0744'
GG0744'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN- 2.5 MILES
GG0744'SOUTH CHETOPA.
GG0744
GG0744
                                STATION RECOVERY (1967)
GG0744
GG0744'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (LFS)
GG0744'STATION MARK, REFERENCE MARK NO. 1, AND THE AZIMUTH MARK
GG0744'WERE RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION.
GG0744'REFERENCE MARK NO. 3 WAS FOUND DISPLACED AND THE MARK WAS
GG0744'RESET. THE 1967 DESCRIPTION WAS FOUND ADEQUATE FOR RECOVERY.
GG0744'
GG0744'FOLLOWING IS A DESCRIPTION FOR REFERENCE MARK NO. 4.
GG0744'REFERENCE MARK NO. 4, A STANDARD DISK STAMPED CHETOPA 1958 NO.
GG0744'4 1967, IS SET IN THE TOP OF A SQUARE CONCRETE POST WHICH
GG0744'PROJECTS 5 INCHES. IT IS 180 FEET NORTH OF THE CENTER OF STATE
GG0744'LINE ROAD, 69 FEET EAST OF THE CENTER OF U.S. HIGHWAY 69,
GG0744'AND 37 FEET NORTH OF AN UNDERGROUND TELEPHONE CABLE BOX ON A
GG0744'CRESOTE POST.
GG0744'
GG0744'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN- 2.5 MILES
GG0744'SOUTH OF CHETOPA.
GG0744
GG0744
                                STATION RECOVERY (1989)
GG0744
GG0744'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1989
GG0744'THE STATION WAS RECOVERED IN GOOD CONDITION, A NEW DESCRIPTION
GG0744'FOLLOWS.
GG0744'THE STATION IS LOCATED ABOUT 14.0 KM (8.70 MI) NORTH OF WELSH, OK, AND
GG0744'4.1 KM (2.55 MI) SOUTH OF CHETOPA. OWNERSHIP--STATE HIGHWAY
GG0744'DEPARTMENT.
GG0744'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 59 AND 166 IN
GG0744'CHETOPA, GO SOUTH ON HIGHWAY 59 FOR 4.1 KM (2.55 MI) TO THE STATION ON
GG0744'THE LEFT, JUST BEFORE REACHING THE OKLAHOMA STATE LINE.
GG0744'THE STATION IS A STANDARD CGS DISK SET IN THE TOP OF A 25 CM SOUARE
GG0744'CONCRETE POST THAT PROJECTS 5 CM ABOVE THE GROUND. LOCATED 32.4 M
GG0744'(106.3 FT) NORTH OF THE CENTER OF STATELINE ROAD, 23.4 M (76.8 FT)
GG0744'EAST OF THE CENTERLINE OF THE HIGHWAY, 13.7 M (44.9 FT) NORTHWEST OF A
GG0744'UTILITY POLE, 9.0 M (29.5 FT) SOUTHEAST OF AN UNDERGROUND CABLE
GG0744'WARNING POST, AND 0.3 M (1.0 FT) WEST OF A METAL WITNESS POST.
GG0744'DESCRIBED BY E.J. HANSMANN, TYPED BY GAM.
GG0744
GG0744
                                STATION RECOVERY (1989)
GG0744
GG0744'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1989
GG0744'RECOVERED IN GOOD CONDITION.
GG0744
GG0744
                                STATION RECOVERY (2009)
GG0744
GG0744'RECOVERY NOTE BY KANSAS DEPARTMENT OF TRANSPORTATION 2009 (KH)
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GG0744'RECOVERED IN GOOD CONDITION.

12/5/12 DATASHEETS

\*\*\* retrieval complete. Elapsed Time = 00:00:04