

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.12.3
1      National Geodetic Survey,  Retrieval Date = NOVEMBER 24, 2017
LK0529 *****
LK0529 DESIGNATION - BROWN
LK0529 PID - LK0529
LK0529 STATE/COUNTY- CO/YUMA
LK0529 COUNTRY - US
LK0529 USGS QUAD - WRAY (1984)
LK0529
LK0529 *CURRENT SURVEY CONTROL
LK0529
LK0529* NAD 83(1992) POSITION- 40 00 12.04613(N) 102 14 27.45909(W) ADJUSTED
LK0529* NAVD 88 ORTHO HEIGHT - 1169.71 (+/-2cm) 3837.6 (feet) VERTCON
LK0529
LK0529 GEOID HEIGHT - -22.084 (meters) GEOID12B
LK0529 LAPLACE CORR - -3.69 (seconds) DEFLEC12B
LK0529 HORZ ORDER - SECOND
LK0529 VERT ORDER - THIRD ? (See Below)
LK0529
LK0529.The horizontal coordinates were established by classical geodetic methods
LK0529.and adjusted by the National Geodetic Survey in January 1993.
LK0529.
LK0529.The NAVD 88 height was computed by applying the VERTCON shift value to
LK0529.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
LK0529
LK0529.Significant digits in the geoid height do not necessarily reflect accuracy.
LK0529.GEOID12B height accuracy estimate available here.
LK0529
LK0529.The vertical order pertains to the NGVD 29 superseded value.
LK0529
LK0529.The Laplace correction was computed from DEFLEC12B derived deflections.
LK0529
LK0529. The following values were computed from the NAD 83(1992) position.
LK0529
LK0529; North East Units Scale Factor Converg.
LK0529;SPC CO N - 384,305.171 1,192,618.094 MT 0.99996612 +2 06 20.8
LK0529;SPC CO N - 1,260,841.22 3,912,781.20 sFT 0.99996612 +2 06 20.8
LK0529;UTM 13 - 4,431,775.357 735,515.234 MT 1.00028289 +1 46 27.9
LK0529
LK0529! - Elev Factor x Scale Factor = Combined Factor
LK0529!SPC CO N - 0.99981999 x 0.99996612 = 0.99978612
LK0529!UTM 13 - 0.99981999 x 1.00028289 = 1.00010283
LK0529
LK0529: Primary Azimuth Mark Grid Az
LK0529:SPC CO N - GRIGSBY 293 20 05.3
LK0529:UTM 13 - GRIGSBY 293 39 58.2
LK0529
LK0529_U.S. NATIONAL GRID SPATIAL ADDRESS: 13TGE3551531775(NAD 83)
LK0529
LK0529|-----|
LK0529| PID Reference Object Distance Geod. Az |
LK0529| | | | dddmmss.s |
LK0529| CP6673 BROWN RM 1 27.016 METERS 12429 |
LK0529| KJ0403 FIELD ET APPROX. 7.7 KM 1863700.2 |
LK0529| CP6672 BROWN AZ MK 1961633.3 |
LK0529| CP6674 BROWN RM 2 25.798 METERS 23344 |

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LK0529 | LK0533 GRIGSBY APPROX. 7.5 KM 2952626.1 |
 LK0529 |-----|

LK0529

LK0529

SUPERSEDED SURVEY CONTROL

LK0529

LK0529 NAD 83(1986)- 40 00 12.04473(N) 102 14 27.45620(W) AD() 2

LK0529 NAD 27 - 40 00 12.08200(N) 102 14 25.75500(W) AD() 2

LK0529 NGVD 29 1169.23 (m) 3836.0 (f) LEVELING 3

LK0529

LK0529.Superseded values are not recommended for survey control.

LK0529

LK0529.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LK0529.See file [dsdata.pdf](#) to determine how the superseded data were derived.

LK0529

LK0529_MARKER: DS = TRIANGULATION STATION DISK

LK0529_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LK0529_STAMPING: BROWN 1935

LK0529_MARK LOGO: CGS

LK0529_PROJECTION: RECESSED 51 CENTIMETERS

LK0529_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LK0529+STABILITY: SURFACE MOTION

LK0529

LK0529 HISTORY - Date Condition Report By

LK0529 HISTORY - 1935 MONUMENTED CGS

LK0529 HISTORY - 1959 GOOD USGS

LK0529 HISTORY - 1968 GOOD USGS

LK0529 HISTORY - 19990707 GOOD NGS

LK0529

STATION DESCRIPTION

LK0529

LK0529'DESCRIBED BY COAST AND GEODETIC SURVEY 1935 (WRP)

LK0529'STATION IS 5 MILES SOUTH AND 1 MILE WEST OF WRAY, IN THE SOUTHWEST

LK0529'QUARTER OF SEC. 36, T. 1 N., R. 44 W. IT IS BESIDE STATE

LK0529'HIGHWAY 51, NORTH OF A LOCAL SUMMIT OF THE ROAD GRADE, 51

LK0529'FEET NORTH OF THE NORTH RIGHT-OF-WAY FENCE, AND 82 FEET NORTH

LK0529'OF THE CENTERLINE OF THE HIGHWAY. THE LAND IS OWNED BY THE L.D.

LK0529'BROWN ESTATE. THE MARK IS SET EIGHTEEN INCHES

LK0529'BELOW THE SURFACE.

LK0529'

LK0529'REFERENCE MARK NO. 1 IS SOUTHEAST OF THE STATION,

LK0529'1 FOOT NORTH OF THE NORTH RIGHT-OF-WAY FENCE, AND 31 FEET NORTH

LK0529'OF CENTER OF STATE HIGHWAY 51. MARK PROJECTS 4 INCHES.

LK0529'

LK0529'REFERENCE MARK NO. 2 IS SOUTHWEST OF STATION, 1

LK0529'FOOT NORTH OF NORTH RIGHT-OF-WAY FENCE, 31 FEET NORTH OF THE

LK0529'CENTER OF THE HIGHWAY. MARK PROJECTS 4 INCHES.

LK0529'

LK0529'THE AZIMUTH MARK IS SOUTH-SOUTHWEST OF STATION,

LK0529'30 FEET WEST OF CENTER OF HIGHWAY 51, IN THE WEST RIGHT-OF-WAY

LK0529'FENCE, 200 FEET NORTH OF A WHITE HOUSE, AND PROJECTS 8 INCHES.

LK0529

STATION RECOVERY (1959)

LK0529

LK0529'RECOVERY NOTE BY US GEOLOGICAL SURVEY 1959

LK0529'STATION IS 5 MILES SOUTH AND 1 MILE WEST OF WRAY, IN THE SOUTHWEST

LK0529'QUARTER OF SEC. 36, T 1 N, R 44 W. IT IS 80 FEET NORTH AND

LK0529'610 FEET EAST OF T-ROAD SOUTH, 31 FEET NORTH OF NORTH RIGHT-OF-WAY

LK0529'FENCE AND 32 FEET WEST OF A POWER POLE, IN CONCRETE POST A

LK0529'STANDARD U.S.C. AND G.S. DISC STAMPED BROWN 1935 AND SET ABOUT 18

LK0529'INCHES BELOW SURFACE OF GROUND.

LK0529'

LK0529'REFERENCE MARK 1 IS 18 FEET SOUTH OF NORTH RIGHT-OF-WAY FENCE.

LK0529'

LK0529'REFERENCE MARK 2 LEANS 30 DEGREES WEST-NORTHWEST.

LK0529

LK0529 STATION RECOVERY (1968)

LK0529

LK0529'RECOVERY NOTE BY US GEOLOGICAL SURVEY 1968 (IGT)

LK0529'THE STATION IS LOCATED SOUTH 8 DEG WEST ABOUT 5.3 MILES AIRLINE
 LK0529'FROM WRAY, COLORADO 82 FEET NORTH AND 1560 FEET EAST OF SOUTHWEST
 LK0529'CORNER OF SECTION 36, T.1N., R. 44W.

LK0529'

LK0529'TO REACH FROM THE JUNCTION OF U.S. HIGHWAYS 34 AND 385 IN
 LK0529'WRAY, GO 5.8 MILES SOUTH ON U.S. HIGHWAY 385 TO START OF A CURVE
 LK0529'FROM WEST TO SOUTH, CONTINUE STRAIGHT AHEAD 0.05 MILE WEST ON
 LK0529'GRADED ROAD TO THE STATION SITE ON THE RIGHT. THE STATION IS
 LK0529'82 FEET NORTH OF GRADED ROAD, 32 FEET NORTH OF RIGHT OF WAY
 LK0529'FENCE.

LK0529'

LK0529'STATION MARK--A USC AND GS BRONZE DISK SET IN A CONCRETE
 LK0529'POST 20 INCHES UNDERGROUND. THE DISK IS STAMPED BROWN 1935.

LK0529'

LK0529'REFERENCE MARK NO. 1--THE REFERENCE MARK IS 31 FEET NORTH OF
 LK0529'THE ROAD ON A MOUND IN THE BORROW DITCH. A USC AND GS BRONZE
 LK0529'REFERENCE MARK DISK SET IN A CONCRETE POST PROJECTING 1 FOOT.
 LK0529'THE DISK IS STAMPED BROWN 1935 R.M. NO. 1.

LK0529'

LK0529'REFERENCE MARK NO. 2--THE REFERENCE MARK IS 31 FEET NORTH OF
 LK0529'THE ROAD ON A MOUND IN THE BORROW DITCH. A USC AND GS BRONZE
 LK0529'REFERENCE MARK DISK SET IN A CONCRETE POST PROJECTING 1 FOOT.
 LK0529'THE DISK IS STAMPED BROWN 1935 R.M. NO. 2.

LK0529'

LK0529'NOTE--REFERENCE MARK NO. 2 WAS FOUND LEANING. THE POST WAS
 LK0529'RIGHTED AND SET AT THE ORIGINAL DISTANCE.

LK0529'

LK0529'THE AZIMUTH MARK IS DESTROYED. MARK WAS FOUND LYING IN THE ROW
 LK0529'DITCH.

LK0529'

LK0529'STATION GRIBSBY 1935 IS VISIBLE FROM THE GROUND AND WILL SERVE
 LK0529'AS THE AZIMUTH MARK.

LK0529

LK0529 STATION RECOVERY (1999)

LK0529

LK0529'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1999 (RSC)

LK0529'REFERENCE MARK NUMBER 2 WAS RECOVERED DESTROYED. IT WAS STAMPED BROWN
 LK0529'NO 2 1935.

1 National Geodetic Survey, Retrieval Date = NOVEMBER 24, 2017

LK0631 *****

LK0631 DESIGNATION - BROWN

LK0631 PID - LK0631

LK0631 STATE/COUNTY- CO/LOGAN

LK0631 COUNTRY - US

LK0631 USGS QUAD - REIRADON HILL (1951)

LK0631

LK0631 *CURRENT SURVEY CONTROL

LK0631

LK0631* NAD 83(1992) POSITION- 40 35 13.54420(N) 103 00 01.84757(W) ADJUSTED

LK0631* [NAVD 88](#) ORTHO HEIGHT - 1367. (meters) 4485. (feet) SCALED

LK0631

LK0631 GEOID HEIGHT - -20.028 (meters) GEOID12B

LK0631 LAPLACE CORR - -2.56 (seconds) DEFLEC12B

LK0631 HORZ ORDER - THIRD

LK0631

LK0631.The horizontal coordinates were established by classical geodetic methods
 LK0631.and adjusted by the National Geodetic Survey in January 1993.

LK0631.

LK0631.The orthometric height was scaled from a topographic map.

LK0631

LK0631.Significant digits in the geoid height do not necessarily reflect accuracy.

LK0631.GEOID12B height accuracy estimate available [here](#).

LK0631

LK0631.The Laplace correction was computed from DEFLEC12B derived deflections.

LK0631

LK0631. The following values were computed from the NAD 83(1992) position.

LK0631

	North	East	Units	Scale Factor	Converg.
LK0631;SPC CO N	- 446,991.166	1,125,969.968	MT	0.99997404	+1 36 54.0
LK0631;SPC CO N	- 1,466,503.52	3,694,119.80	sFT	0.99997404	+1 36 54.0
LK0631;UTM 13	- 4,494,843.744	669,210.262	MT	0.99995244	+1 18 04.3

LK0631

LK0631! - Elev Factor x Scale Factor = Combined Factor

LK0631!SPC CO N - 0.99978881 x 0.99997404 = 0.99976286

LK0631!UTM 13 - 0.99978881 x 0.99995244 = 0.99974126

LK0631

	Primary Azimuth Mark	Grid Az
LK0631:SPC CO N	- KNOLL	316 43 23.1
LK0631:UTM 13	- KNOLL	317 02 12.8

LK0631

LK0631_U.S. NATIONAL GRID SPATIAL ADDRESS: 13TFE6921094843(NAD 83)

LK0631

PID	Reference Object	Distance	Geod. Az dddmmss.s
LK0632	KNOLL	APPROX. 4.2 KM	3182017.1

LK0631

LK0631 SUPERSEDED SURVEY CONTROL

LK0631

LK0631 NAD 83(1986)- 40 35 13.53812(N) 103 00 01.84662(W) AD() 3

LK0631 NAD 27 - 40 35 13.58972(N) 103 00 00.15178(W) AD() 3

LK0631

LK0631.Superseded values are not recommended for survey control.

LK0631

LK0631.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LK0631.See file [dsdata.pdf](#) to determine how the superseded data were derived.

LK0631

LK0631_MARKER: DD = SURVEY DISK

LK0631_SETTING: 0 = UNSPECIFIED SETTING

LK0631_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

LK0631

LK0631 HISTORY - Date Condition Report By

LK0631 HISTORY - 1949 MONUMENTED USGS

LK0631

LK0631 STATION DESCRIPTION

LK0631

LK0631'DESCRIBED BY US GEOLOGICAL SURVEY 1949

LK0631'STATION IS LOCATED ABOUT 12.3 MI. E. OF STERLING, COLORADO, ON TOP

LK0631'OF HILL, S. OF CENTER OF SEC. 7, T 8 N, R 50 W, ABOUT 1120 FT. N.

LK0631'OF CENTER OF COLORADO STATE HIGHWAY 124.

LK0631'

LK0631'TO REACH FROM POST OFFICE AT STERLING, GO N. 1 BLOCK, THEN E. ALONG

LK0631'U.S. HIGHWAY 6 ABOUT 1.8 MI. TO JUNCTION WITH COLORADO STATE HIGHWAY

LK0631'154, TURN RIGHT AND GO E. ALONG STATE HIGHWAY 154 ABOUT 10.5 MI. TO

LK0631'FENCE N., LEAVE RD. AND GO N. ALONG FENCE LINE ABOUT 0.2 MI. TO TOP OF

LK0631'HILL AND STATION. STATION IS ABOUT 1118 FT. N. OF CENTERLINE OF RD.

LK0631'AND ABOUT 1.0 FT. W. OF FENCE.

LK0631'

LK0631'STATION MARK--STANDARD TABLET, SET IN TOP OF CONCRETE POST, STAMPED

LK0631'---BROWN 1949---

LK0631'

LK0631'REFERENCE MARK NO. 1--STANDARD REFERENCE MARK TABLET, STAMPED

LK0631'---BROWN NO. 1 1949---, SET IN TOP OF CONCRETE POST, ABOUT 100.7 FT.

LK0631'S. OF STATION AND ABOUT 1.0 FT. W. OF FENCE, N 00 DEG 29 MIN E.

LK0631'

LK0631'REFERENCE MARK NO. 2--STANDARD REFERENCE MARK TABLET, STAMPED

LK0631'---BROWN NO. 2 1949---, SET IN TOP OF CONCRETE POST, ABOUT 102.6 FT.
LK0631'N. OF STATION AND ABOUT 1.0 FT. W. OF FENCE, S 00 DEG 42 MIN E.

1 National Geodetic Survey, Retrieval Date = NOVEMBER 24, 2017

KL0829 *****

KL0829 CBN - This is a Cooperative Base Network Control Station.
KL0829 PACS - This is a Primary Airport Control Station.
KL0829 DESIGNATION - BROWN
KL0829 PID - KL0829
KL0829 STATE/COUNTY- CO/EAGLE
KL0829 COUNTRY - US
KL0829 USGS QUAD - GYPSUM (1987)

KL0829

KL0829 *CURRENT SURVEY CONTROL

KL0829

KL0829* NAD 83(2011) POSITION- 39 38 38.13873(N) 106 54 58.03270(W) ADJUSTED

KL0829* NAD 83(2011) ELLIP HT- 1963.662 (meters) (06/27/12) ADJUSTED

KL0829* NAD 83(2011) EPOCH - 2010.00

KL0829* [NAVD 88](#) ORTHO HEIGHT - 1977.46 (meters) 6487.7 (feet) N HEIGHT

KL0829

KL0829 GEOID HEIGHT - -13.782 (meters) GEOID12B

KL0829 NAD 83(2011) X - -1,431,444.804 (meters) COMP

KL0829 NAD 83(2011) Y - -4,706,678.345 (meters) COMP

KL0829 NAD 83(2011) Z - 4,048,873.950 (meters) COMP

KL0829 LAPLACE CORR - 2.59 (seconds) DEFLEC12B

KL0829 DYNAMIC HEIGHT - 1975.32 (meters) 6480.7 (feet) COMP

KL0829 MODELED GRAVITY - 979,477.5 (mgal) NAVD 88

KL0829

KL0829 VERT ORDER - THIRD

KL0829

KL0829 Network accuracy estimates per FGDC Geospatial Positioning Accuracy

KL0829 Standards:

	FGDC (95% conf, cm)		Standard deviation (cm)			CorrNE (unitless)
	Horiz	Ellip	SD_N	SD_E	SD_h	
NETWORK	0.49	0.76	0.22	0.18	0.39	0.08985102

KL0829 -----

KL0829 NETWORK 0.49 0.76 0.22 0.18 0.39 0.08985102

KL0829 -----

KL0829 Click [here](#) for local accuracies and other accuracy information.

KL0829

KL0829

KL0829.This mark is at Eagle Co Regional Airport (EGE)

KL0829

KL0829.The horizontal coordinates were established by GPS observations

KL0829.and adjusted by the National Geodetic Survey in June 2012.

KL0829

KL0829.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has

KL0829.been affixed to the stable North American tectonic plate. See

KL0829.[NA2011](#) for more information.

KL0829

KL0829.The horizontal coordinates are valid at the epoch date displayed above

KL0829.which is a decimal equivalence of Year/Month/Day.

KL0829

KL0829.The orthometric height was determined by differential leveling

KL0829.and adjusted by the NATIONAL GEODETIC SURVEY in August 1995.

KL0829

KL0829.The height was determined by precise leveling from only one NSRS

KL0829.bench mark. This was not adequate "tie leveling" to NSRS and was

KL0829.allowed ONLY to validate the GPS-derived height.

KL0829

KL0829.Significant digits in the geoid height do not necessarily reflect accuracy.

KL0829.GEOID12B height accuracy estimate available [here](#).

KL0829

KL0829.The X, Y, and Z were computed from the position and the ellipsoidal ht.

KL0829

KL0829.The Laplace correction was computed from DEFLEC12B derived deflections.

KL0829

KL0829.The ellipsoidal height was determined by GPS observations
KL0829.and is referenced to NAD 83.

KL0829

KL0829.The dynamic height is computed by dividing the NAVD 88
KL0829.geopotential number by the normal gravity value computed on the
KL0829.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
KL0829.degrees latitude (g = 980.6199 gals.).

KL0829

KL0829.The modeled gravity was interpolated from observed gravity values.

KL0829

KL0829. The following values were computed from the NAD 83(2011) position.

KL0829

KL0829;	North	East	Units	Scale Factor	Converg.
KL0829;SPC CO C	- 506,742.360	792,855.358	MT	0.99998074	-0 53 35.3
KL0829;SPC CO C	- 1,662,537.23	2,601,226.29	sFT	0.99998074	-0 53 35.3
KL0829;UTM 13	- 4,389,992.237	335,588.415	MT	0.99993281	-1 13 22.0

KL0829

KL0829! - Elev Factor x Scale Factor = Combined Factor

KL0829!SPC CO C - 0.99969203 x 0.99998074 = 0.99967277

KL0829!UTM 13 - 0.99969203 x 0.99993281 = 0.99962486

KL0829

KL0829:	Primary Azimuth Mark	Grid Az
KL0829:SPC CO C	- K 280	055 14 54.8
KL0829:UTM 13	- K 280	055 34 41.5

KL0829

KL0829_U.S. NATIONAL GRID SPATIAL ADDRESS: 13SCD3558889992(NAD 83)

KL0829

KL0829	PID	Reference Object	Distance	Geod. Az
KL0829				ddmmss.s
KL0829	KL0435	K 280	417.423 METERS	0542119.5
KL0829	KL0434	J 280	431.102 METERS	3540800.4

KL0829

KL0829

SUPERSEDED SURVEY CONTROL

KL0829

KL0829	NAD 83(2007)-	39 38 38.13848(N)	106 54 58.03301(W)	AD(2002.00)	0
KL0829	ELLIP H (02/10/07)	1963.691 (m)		GP(2002.00)	
KL0829	ELLIP H (10/21/02)	1963.673 (m)		GP()	5 1
KL0829	NAD 83(1986)-	39 38 38.13035(N)	106 54 58.02911(W)	AD()	3
KL0829	NAD 83(1992)-	39 38 38.13823(N)	106 54 58.03249(W)	AD()	B
KL0829	ELLIP H (05/26/92)	1963.697 (m)		GP()	4 1
KL0829	NAVD 88	1977.46 (m)	6487.7 (f)	LEVELING	3
KL0829	NAVD 88 (03/05/99)	1977.46 (m)	UNKNOWN model used	GPS OBS	
KL0829	NAVD 88 (06/12/98)	1977.40 (m)	GEOID96 model used	GPS OBS	
KL0829	NAVD 88	1977.46 (m)	6487.7 (f)	LEVELING	3
KL0829	NGVD 29 (??/??/??)	1976.14 (m)	6483.4 (f)	N HEIGHT	3
KL0829	NGVD 29	1976.14 (m)	6483.4 (f)	LEVELING	3

KL0829

KL0829.Superseded values are not recommended for survey control.

KL0829

KL0829.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KL0829.See file [dsdata.pdf](#) to determine how the superseded data were derived.

KL0829

KL0829_MARKER: I = METAL ROD

KL0829_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

KL0829_STAMPING: BROWN 1991

KL0829_MARK LOGO: NGS

KL0829_PROJECTION: FLUSH

KL0829_MAGNETIC: N = NO MAGNETIC MATERIAL

KL0829_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

KL0829_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

KL0829+SATELLITE: SATELLITE OBSERVATIONS - June 26, 2000

KL0829_ROD/PIPE-DEPTH: 4.3 meters

KL0829_SLEEVE-DEPTH : 0.9 meters

KL0829	HISTORY	- Date	Condition	Report By
KL0829	HISTORY	- 1991	MONUMENTED	NGS
KL0829	HISTORY	- 19910615	GOOD	NGS
KL0829	HISTORY	- 19941121	GOOD	LOCENG
KL0829	HISTORY	- 19971007	GOOD	CODOT
KL0829	HISTORY	- 19980923	GOOD	MSI
KL0829	HISTORY	- 19990510	GOOD	NGS
KL0829	HISTORY	- 20000626	GOOD	NGS

KL0829

KL0829

STATION DESCRIPTION

KL0829

KL0829'DESCRIBED BY NATIONAL GEODETIC SURVEY 1991

KL0829'STATION IS LOCATED ABOUT 8 KM (5.0 MI) WEST OF EAGLE, 3 KM (1.9 MI) EAST OF GYPSUM, AT THE EAGLE COUNTY REGIONAL AIRPORT, BETWEEN RUNWAYS 8-26 AND 7-25, ON THE WEST SIDE OF THE MOST WESTERLY TAXI, ON THE EAST SIDE OF A WINDSOCK AND SYMMETRICAL CIRCLE, NEAR THE WEST CENTRAL EDGE OF SECTION 3, T 5 S, R 85 W. OWNERSHIP--EAGLE COUNTY REGIONAL AIRPORT, PO BOX 850, EAGLE, CO 81631. AIRPORT MANAGER IS DAN REYNOLDS. PHONE IS 303-524-9490. MANAGERS OFFICE IS IN THE NATIONAL GUARD HANGAR BUILDING ON THE NORTH SIDE OF THE FIELD. TO REACH FROM THE GYPSUM EXIT OF INTERSTATE HIGHWAY 70 (EXIT 140), GO SOUTH ON OLD HIGHWAY 6 FOR 0.9 MI (1.4 KM) TO A STATE MAINTAINANCE YARD ENTRANCE ON THE LEFT. CONTINUE EAST FOR 1.5 MI (2.4 KM) TO A PAVED ROAD RIGHT AT BASE OF MESA AT SIGN -NORTH RAMP-. TURN SHARP RIGHT, SOUTHWEST, UPGRADE, THEN WEST FOR 0.5 MI (0.8 KM) TO ROAD END AT FAA BUILDING AND PAVED PARKING LOT. BEAR LEFT, NORTHEAST, FOR 0.05 MI (0.08 KM) ACROSS PARKING LOT, THEN SHARP RIGHT, SOUTH, ALONGSIDE NATIONAL GUARD BUILDING TO THE APRON. TURN RIGHT, WEST, ON APRON FOR 0.15 MI (0.24 KM) TO END OF APRON AND TAXI ON THE LEFT. BEAR LEFT, SOUTHWEST, ON TAXI (CROSSING RUNWAY 8-26) FOR 0.15 MI (0.24 KM) TO THE WINDSOCK AND STATION ON THE RIGHT, ABOUT 75 M (246.1 FT) BEFORE REACHING RUNWAY. STATION MARK IS A PUNCH HOLE TOP CENTER IN A STEEL ROD ENCASED IN A PVC PIPE WITH LOGO CAP SET IN AN 0.5 M (1.6 FT) ROUND CONCRETE POST FLUSH WITH THE GROUND. IT IS 62.5 M (205.1 FT) NORTHWEST OF THE TAXI CENTER, 19.8 M (65.0 FT) EAST OF THE WINDSOCK POLE, 34.4 M (112.9 FT) NORTH OF THE TOP CENTER OF A CONCRETE DRAIN PIPE IN A ROCK-FILLED CATCH BASIN, 2.6 M (8.5 FT) SOUTHEAST OF THE ANGLE FORMED BY THE TRAFFIC PATTERN INDICATOR, 1.3 M (4.3 FT) EAST OF A FIBERGLASS WITNESS POST AND 1.4 M (4.6 FT) NORTH OF A FIBERGLASS WITNESS POST. DESCRIBED BY G.R.HEID

KL0829

KL0829

STATION RECOVERY (1991)

KL0829

KL0829'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991

KL0829'THE STATION IS LOCATED AT THE EAGLE COUNTY REGIONAL AIRPORT NEAR THE MIDFIELD WINDSOCK. IT IS 66 FT (20.1 M) EAST OF THE WINDSOCK AND SET WITHIN THE EAST WING OF THE SEGMENTED CIRCLE. THE STATION IS A STAINLESS STEEL ROD SET WITHIN A NGS LOGO CAP STAMPED BROWN 1991 ON THE RIM.

KL0829

KL0829

STATION RECOVERY (1994)

KL0829

KL0829'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM) 1994 (FH)

KL0829'RECOVERED AS DESCRIBED.

KL0829

KL0829

STATION RECOVERY (1997)

KL0829

KL0829'RECOVERY NOTE BY COLORADO DEPARTMENT OF TRANSPORTATION 1997 (RSC)

KL0829'RECOVERED AS DESCRIBED.

KL0829

KL0829

STATION RECOVERY (1998)

KL0829

KL0829'RECOVERY NOTE BY MEASUREMENT SCIENCE INCORPORATED 1998 (PD)

KL0829'RECOVERED AS DESCRIBED

KL0829

KL0829

STATION RECOVERY (1999)

KL0829

KL0829'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1999 (RSC)

KL0829'THE STATION IS LOCATED ABOUT 4.5 MI (7.2 KM) WEST OF EAGLE, 2 MI (3.2

KL0829'KM) EAST OF GYPSUM AND 0.75 MI (1.21 KM) SOUTH OF INTERSTATE 70, IN

KL0829'THE SOUTHWEST 1/4 OF SECTION 3, T 5 S, R 85 W. ACCESS TO THE AIRPORT

KL0829'IS CONTROLLED. PERMISSION TO USE THIS STATION MUST BE OBTAINED FROM

KL0829'THE AIRPORT MANAGER. OWNERSHIP--EAGLE COUNTY REGIONAL AIRPORT, P.O.

KL0829'BOX 850, EAGLE, CO 81631, AIRPORT MANAGER--JAMES P. ELWOOD,

KL0829'TELEPHONE--970-524-8246

KL0829'TO REACH THE STATION FROM INTERSTATE 70 EXIT 140, THE GYPSUM EXIT, GO

KL0829'SOUTHEAST ON OLD U.S. HIGHWAY 6 FOR 0.65 MI (1.05 KM) TO A SIDE ROAD

KL0829'RIGHT, COTTONWOOD PASS ROAD. TURN RIGHT, SOUTH, ON THE COTTONWOOD

KL0829'PASS WOOD FOR 0.45 MI (0.72 KM) TO A SIDE ROAD LEFT, COOLEY MESA ROAD.

KL0829'TURN LEFT, EAST, ON COOLEY MESA ROAD FOR 1.9 MI (3.1 KM) TO A SIDE

KL0829'ROAD LEFT, THE WESTERN ENTRANCE TO THE EAGLE COUNTY REGIONAL AIRPORT.

KL0829'TURN LEFT, NORTH, THAN NORTHWEST TO THE ARFF/SRE BUILDING. CONTACT

KL0829'AIRPORT OPERATION BEFORE GOING TO THE FLIGHT OPERATIONS AREA. PASS

KL0829'THROUGH THE GATE AND ON TO THE TERMINAL RAMP, NORTH-NORTHWEST, FOR 0.1

KL0829'MI (0.2 KM) TO TAXIWAY A. CROSS TAXIWAY A ON TO RAMP A/3,

KL0829'NORTH-NORTHWEST, FOR 0.1 MI (0.2 KM) TO RUNWAY 7/25. CROSS THE RUNWAY,

KL0829'NORTH, ON RAMP B/3 FOR 0.1 MI (0.2 KM) TO THE STATION NEAR THE

KL0829'WINDSOCK ON THE LEFT

KL0829'THE MARK IS A PUNCH HOLE, TOP CENTER ON A 4.3 M (14.1 FT) STAINLESS

KL0829'STEEL ROD DRIVEN TO REFUSAL, ENCASED IN A 0.9 M (3.0 FT) LONG GREASED

KL0829'PVC PIPE, ENCLOSED IN A 5-INCH PVC PIPE WITH LOGO LID, SURROUNDED BY A

KL0829'CONCRETE COLLAR FLUSH WITH THE GROUND. IT IS 62.5 M (205.1 FT)

KL0829'NORTHWEST FROM RAMP B/3, 19.8 M (65.0 FT) EAST FROM THE WINDSOCK POLE,

KL0829'2.6 M (8.5 FT) SOUTHEAST FROM THE ANGLE FORMED BY THE TRAFFIC PATTERN

KL0829'INDICATOR, 1.3 M (4.3 FT) EAST FROM A WITNESS POST AND 1.4 M (4.6 FT)

KL0829'NORTH FROM A WITNESS POST. THIS STATION IS DESIGNATED A PRIMARY

KL0829'AIRPORT CONTROL STATION FOR THE ANA PROJECT.

KL0829

KL0829

STATION RECOVERY (2000)

KL0829

KL0829'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2000 (DRL)

KL0829'RECOVERED AS DESCRIBED.

1 National Geodetic Survey, Retrieval Date = NOVEMBER 24, 2017

AE4292 *****

AE4292 DESIGNATION - BROWN

AE4292 PID - AE4292

AE4292 STATE/COUNTY- CO/EL PASO

AE4292 COUNTRY - US

AE4292 USGS QUAD - MANITOU SPRINGS (1994)

AE4292

AE4292 *CURRENT SURVEY CONTROL

AE4292

AE4292* NAD 83(2011) POSITION- 38 47 26.16707(N) 104 54 13.98301(W) ADJUSTED

AE4292* NAD 83(2011) ELLIP HT- 2272.979 (meters) (06/27/12) ADJUSTED

AE4292* NAD 83(2011) EPOCH - 2010.00

AE4292* [NAVD 88](#) ORTHO HEIGHT - 2289.1 (meters) 7510. (feet) GPS OBS

AE4292

AE4292 NAVD 88 orthometric height was determined with geoid model GEOID96

AE4292 GEOID HEIGHT - -16.163 (meters) GEOID96

AE4292 GEOID HEIGHT - -16.171 (meters) GEOID12B

AE4292 NAD 83(2011) X - -1,280,769.146 (meters) COMP

AE4292 NAD 83(2011) Y - -4,812,171.444 (meters) COMP

AE4292 NAD 83(2011) Z - 3,975,648.758 (meters) COMP

AE4292 LAPLACE CORR - -26.83 (seconds) DEFLEC12B

AE4292

AE4292 Network accuracy estimates per FGDC Geospatial Positioning Accuracy

AE4292 Standards:

AE4292 FGDC (95% conf, cm) Standard deviation (cm) CorrNE

AE4292 Horiz Ellip SD_N SD_E SD_h (unitless)
 AE4292 -----
 AE4292 NETWORK 1.75 6.37 0.78 0.63 3.25 0.14708151
 AE4292 -----
 AE4292 Click [here](#) for local accuracies and other accuracy information.
 AE4292
 AE4292
 AE4292.The horizontal coordinates were established by GPS observations
 AE4292.and adjusted by the National Geodetic Survey in June 2012.
 AE4292
 AE4292.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
 AE4292.been affixed to the stable North American tectonic plate. See
 AE4292.[NA2011](#) for more information.
 AE4292
 AE4292.The horizontal coordinates are valid at the epoch date displayed above
 AE4292.which is a decimal equivalence of Year/Month/Day.
 AE4292
 AE4292.The orthometric height was determined by GPS observations and a
 AE4292.high-resolution geoid model.
 AE4292
 AE4292.Significant digits in the geoid height do not necessarily reflect accuracy.
 AE4292.GE0ID12B height accuracy estimate available [here](#).
 AE4292
 AE4292.[Photographs](#) are available for this station.
 AE4292
 AE4292.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AE4292
 AE4292.The Laplace correction was computed from DEFLEC12B derived deflections.
 AE4292
 AE4292.The ellipsoidal height was determined by GPS observations
 AE4292.and is referenced to NAD 83.
 AE4292
 AE4292. The following values were computed from the NAD 83(2011) position.
 AE4292
 AE4292;

	North	East	Units	Scale	Factor	Converg.
AE4292;SPC CO C	- 411,234.038	966,190.125	MT	0.99995050		+0 22 33.5
AE4292;SPC CO C	- 1,349,190.34	3,169,908.77	sFT	0.99995050		+0 22 33.5
AE4292;UTM 13	- 4,293,544.262	508,347.315	MT	0.99960086		+0 03 36.8

 AE4292

	Elev Factor	x	Scale Factor	=	Combined Factor
AE4292!SPC CO C	- 0.99964350	x	0.99995050	=	0.99959401
AE4292!UTM 13	- 0.99964350	x	0.99960086	=	0.99924450

 AE4292
 AE4292_U.S. NATIONAL GRID SPATIAL ADDRESS: 13SEC0834793544(NAD 83)
 AE4292
 AE4292 SUPERSEDED SURVEY CONTROL
 AE4292

	NAD 83(2007)-	38 47 26.16687(N)	104 54 13.98335(W)	AD(2002.00)	0
AE4292 ELLIP H (02/10/07)	2273.027 (m)			GP(2002.00)	
AE4292 ELLIP H (12/03/02)	2273.030 (m)			GP()	4 2
AE4292 NAD 83(1992)-	38 47 26.16654(N)	104 54 13.98288(W)	AD()	1	
AE4292 ELLIP H (10/31/97)	2273.042 (m)		GP()	4 1	

 AE4292
 AE4292.Superseded values are not recommended for survey control.
 AE4292
 AE4292.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AE4292.See file [dsdata.pdf](#) to determine how the superseded data were derived.
 AE4292
 AE4292_MARKER: DH = HORIZONTAL CONTROL DISK
 AE4292_SETTING: 80 = SET IN A BOULDER
 AE4292_STAMPING: BROWN 1996
 AE4292_MARK LOGO: NGS
 AE4292_MAGNETIC: 0 = OTHER; SEE DESCRIPTION
 AE4292_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AE4292+STABILITY: SURFACE MOTION

AE4292_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AE4292+SATELLITE: SATELLITE OBSERVATIONS - January 25, 2004

AE4292

AE4292	HISTORY	- Date	Condition	Report By
AE4292	HISTORY	- 1996	MONUMENTED	NGS
AE4292	HISTORY	- 20040125	GOOD	GEOCAC

AE4292

AE4292 STATION DESCRIPTION

AE4292

AE4292'DESCRIBED BY NATIONAL GEODETIC SURVEY 1996 (RSC)

AE4292'THE STATION IS LOCATED ABOUT 6 MI (9.7 KM) WEST-NORTHWEST OF THE NORTH

AE4292'GATE TO FORT CARSON, 5 MI (8.0 KM) WEST-SOUTHWEST OF COLORADO SPRINGS

AE4292'AND 4.5 MI (7.2 KM) SOUTH OF MANITOU SPRINGS, IN THE NORTHWEST 1/4 OF

AE4292'SECTION 33, T 14 S, R 67 W. OWNERSHIP--CITY OF COLORADO SPRINGS PARKS

AE4292'DEPT TO REACH THE STATION FROM THE INTERSECTION OF CHEYENNE BLVD.

AE4292'AND CRESTA ROAD IN WESTERN COLORADO SPRINGS, GO WEST ON CHEYENNE BLVD.

AE4292'FOR 1.0 MI (1.6 KM) TO THE INTERSECTION OF NORTH CHEYENNE CANYON ROAD,

AE4292'EVANS ROAD AND SOUTH CHEYENNE CANYON ROAD. THE STARSMORE DISCOVERY

AE4292'CENTER IS JUST WEST OF THIS INTERSECTION. CONTINUE AHEAD, WEST, UP

AE4292'NORTH CHEYENNE CANYON ROAD FOR 3.3 MI, (5.3 KM) PAST HELEN HUNT FALLS,

AE4292'TO THE END OF PAVEMENT AND A PARKING AREA WHERE THE STATION IS LOCATED

AE4292'THE MARK IS A STANDARD DISK SET IN A DRILL HOLE IN THE TOP OF A

AE4292'GRANITE BOULDER, 2.7 M (8.9 FT) BY 1.5 M (4.9 FT) BY 0.8 M (2.6 FT)

AE4292'HIGH, IN THE MIDDLE OF THE PARKING LOT. IT IS 48.0 M (157.5 FT)

AE4292'NORTHWEST FROM THE NORTH POST HINGE FOR A GATE TO A ROAD GOING UPHILL

AE4292'(HIGH ROAD) , 43.4 M (142.4 FT) NORTHWEST FROM THE TIP OF THE GORE

AE4292'BETWEEN TWO ROADS GOING EAST OUT OF THE PARKING LOT AND 31.5 M (103.3

AE4292'FT) NORTH FROM THE HINGE ON THE GATE POST TO THE PARKING LOT.

AE4292

AE4292 STATION RECOVERY (2004)

AE4292

AE4292'RECOVERY NOTE BY GEOCACHING 2004 (CMD)

AE4292'RECOVERED AS DESCRIBED IN GOOD CONDITION

*** retrieval complete.

Elapsed Time = 00:00:07