

PZ0717 NGVD 29 (07/19/86) 2119. (m) 6952. (f) VERT ANG

PZ0717

PZ0717.Superseded values are not recommended for survey control.

PZ0717

PZ0717.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

PZ0717.See file [dsdata.pdf](#) to determine how the superseded data were derived.

PZ0717

PZ0717_MARKER: DD = SURVEY DISK

PZ0717_SETTING: 0 = UNSPECIFIED SETTING

PZ0717_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

PZ0717

PZ0717 HISTORY - Date Condition Report By

PZ0717 HISTORY - 1950 MONUMENTED USGS

PZ0717

PZ0717 STATION DESCRIPTION

PZ0717

PZ0717'DESCRIBED BY US GEOLOGICAL SURVEY 1950

PZ0717'STATION LOCATED ON FIRST PROMINENT RIDGE SSW. OF METLEN RANCH ABOUT

PZ0717'0.75 MI. S. OF SALMON, IDAHO ROAD ABOUT 5.5 MI. W. OF ARMSTEAD IN

PZ0717'SEC. 16, T 10 S, R 11 W.

PZ0717'

PZ0717'TO REACH FROM JUNCTION U.S. HIGHWAY 91 AND SALMON, IDAHO ROAD AT N.

PZ0717'END OF ARMSTEAD, GO W. ON SALMON ROAD 5.0 MI. TO ENTRANCE TO METLENS

PZ0717'RANCH, THENCE ON ROAD 0.2 MI., THENCE LEFT (S.) CROSS COUNTRY

PZ0717'APPROXIMATELY 1.0 MI. TO TOP OF NARROW RIDGE RUNNING NW-SE. AND

PZ0717'STATION SITE ON NEXT TO HIGHEST POINT OF RIDGE. HIGHEST POINT IS

PZ0717'THE SE. END, STATION SITE ABOUT 1500 FT. NW.

PZ0717'

PZ0717'STATION MARK--STANDARD BRONZE TABLET SET IN DRILL HOLE ABOUT 5 FT. S.

PZ0717'OF N. EDGE AND STAMPED ---BROWN 1950---.

PZ0717'

PZ0717'REFERENCE MARK NO. 1--STANDARD BRONZE TABLET SET IN DRILL HOLE 8 FT.

PZ0717'LOWER THAN STATION AND STAMPED ---BROWN NO. 1 1950---, 11.00 FT. FROM

PZ0717'STATION, N 81 DEG 03 MIN W.

PZ0717'

PZ0717'REFERENCE MARK NO. 2--STANDARD BRONZE TABLET SET IN DRILL HOLE ON

PZ0717'RIDGE AND STAMPED ---BROWN NO. 2 1950---, 98.80 FT. FROM STATION,

PZ0717'N 37 DEG 21 MIN W.

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

RV0716 *****

RV0716 DESIGNATION - BROWN

RV0716 PID - RV0716

RV0716 STATE/COUNTY- MT/YELLOWSTONE

RV0716 COUNTRY - US

RV0716 USGS QUAD - HAY BASIN NE (1979)

RV0716

RV0716 *CURRENT SURVEY CONTROL

RV0716

RV0716* NAD 83(1992) POSITION- 46 07 38.09550(N) 108 32 42.43391(W) ADJUSTED

RV0716* [NAVD 88](#) ORTHO HEIGHT - 1225.8 (meters) 4022. (feet) VERTCON

RV0716

RV0716 GEOID HEIGHT - -13.164 (meters) GEOID12B

RV0716 LAPLACE CORR - -6.97 (seconds) DEFLEC12B

RV0716 HORZ ORDER - FIRST

RV0716

RV0716.The horizontal coordinates were established by classical geodetic methods

RV0716.and adjusted by the National Geodetic Survey in July 1992.

RV0716.

RV0716.The NAVD 88 height was computed by applying the VERTCON shift value to

RV0716.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

RV0716

RV0716.Significant digits in the geoid height do not necessarily reflect accuracy.

RV0716.GEOID12B height accuracy estimate available [here](#).

RV0716

RV0716.The Laplace correction was computed from DEFLEC12B derived deflections.

RV0716

RV0716. The following values were computed from the NAD 83(1992) position.

RV0716

RV0716;	North	East	Units	Scale Factor	Converg.
RV0716;SPC MT	- 209,065.007	673,760.450	MT	0.99951094	+0 41 54.6
RV0716;SPC MT	- 685,908.82	2,210,500.16	iFT	0.99951094	+0 41 54.6
RV0716;UTM 12	- 5,111,115.548	689,648.568	MT	1.00004216	+1 46 12.7

RV0716!

	Elev Factor	x	Scale Factor	=	Combined Factor
RV0716!SPC MT	- 0.99980993	x	0.99951094	=	0.99932097
RV0716!UTM 12	- 0.99980993	x	1.00004216	=	0.99985209

RV0716

RV0716:	Primary Azimuth Mark	Grid Az
RV0716:SPC MT	- CONOVER	267 00 43.9
RV0716:UTM 12	- CONOVER	265 56 25.8

RV0716

RV0716_U.S. NATIONAL GRID SPATIAL ADDRESS: 12TXS8964811115(NAD 83)

RV0716

RV0716	PID	Reference Object	Distance	Geod. Az
RV0716				dddmmss.s
RV0716	CQ5193	BROWN RM 1	12.859 METERS	09648
RV0716	RV0718	CONOVER	APPROX.15.2 KM	2674238.5
RV0716	CQ5194	BROWN RM 2	10.772 METERS	31605

RV0716

RV0716 SUPERSEDED SURVEY CONTROL

RV0716

RV0716	NAD 83(1986)-	46 07 38.08936(N)	108 32 42.40800(W)	AD()	1
RV0716	NAD 27	- 46 07 38.22991(N)	108 32 39.92088(W)	AD()	1
RV0716	NGVD 29 (07/19/86)	1225.0 (m)	4019. (f)	VERT ANG	

RV0716

RV0716.Superseded values are not recommended for survey control.

RV0716

RV0716.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

RV0716.See file [dsdata.pdf](#) to determine how the superseded data were derived.

RV0716

RV0716_MARKER: DS = TRIANGULATION STATION DISK

RV0716_SETTING: 66 = SET IN ROCK OUTCROP

RV0716

RV0716	HISTORY	- Date	Condition	Report By
RV0716	HISTORY	- 1972	MONUMENTED	NGS

RV0716

RV0716 STATION DESCRIPTION

RV0716

RV0716'DESCRIBED BY NATIONAL GEODETIC SURVEY 1972 (WMJ)
 RV0716'THE STATION IS LOCATED 23.5 MILES NORTH OF BILLINGS, 21 MILES SOUTH
 RV0716'OF ROUNDUP, 16 MILES EAST OF BROADVIEW, CLOSE TO THE EAST END OF A
 RV0716'TIMBERED, ROCKY BLUFF OVERLOOKING THE VALLEY OF THE NORTH FORK OF
 RV0716'CROOKED CREEK TO THE EAST AND SOUTH. THERE IS A HIGHER AND
 RV0716'SIMILAR BLUFF ABOUT ONE HALF MILE NORTH OF THE STATION POINT. IT
 RV0716'IS ON LAND OWNED BY MR. ALEX BROWN WHO CAN BE REACHED AT PHONE
 RV0716'NUMBER 667-2733.

RV0716'

RV0716'TO REACH THE STATION FROM THE POST OFFICE ON THE CORNER OF NORTH
 RV0716'FIRST STREET AND 26TH STREET IN DOWNTOWN BILLINGS GO NORTHEAST ON
 RV0716'NORTH FIRST STREET FOR 1.3 MILES TO A FORK WHERE U.S. HIGHWAYS
 RV0716'87 AND 312 TURN LEFT. TURN LEFT AND GO NORTHERLY ON U.S. HIGHWAYS
 RV0716'87 AND 312 FOR 3.45 MILES TO A FORK AND DIVISION OF HIGHWAYS.
 RV0716'TAKE LEFT FORK AND CONTINUE NORTH ON U.S. HIGHWAY 87 FOR 15.8 MILES
 RV0716'TO A GRADED CROSSROAD. TURN LEFT AND GO WEST AND NORTH ON
 RV0716'GRADED ROAD 6.6 MILES TO CATTLEGUARD AND CURVE TO WEST WITH TRACK
 RV0716'ROAD ON THE SECTION LINE NORTH ON TOP OF THE BLUFF. TURN RIGHT AND
 RV0716'GO NORTH ON THE SECTION LINE TRACK ROAD 2.0 MILES TO A T
 RV0716'INTERSECTION. TURN RIGHT AND GO EAST ON TRACK ROAD 0.5 MILE TO A

RV0716'GATE ON RIGHT. TURN RIGHT THROUGH GATE AND CONTINUE EAST ON THE
 RV0716'SOUTH SIDE OF WIRE FENCE 0.4 MILE TO A CURVE RIGHT JUST BEFORE
 RV0716'REACHING FENCE CORNER. TURN RIGHT AND GO SOUTH ON TRACK ROAD 0.25
 RV0716'MILE TO A DIM FORK. TAKE LEFT FORK AND CONTINUE SOUTHEAST ON
 RV0716'DIM TRACKS 0.25 MILE TO A WIRE GATE AND CATTLEGUARD. PASS
 RV0716'THROUGH AND CONTINUE EAST-SOUTHEAST ON DIM TRACKS 0.3 MILE TO A
 RV0716'TURN-AROUND AND END OF TRUCK TRAVEL. THE STATION IS ABOUT 200 FEET
 RV0716'BEYOND ON TOP OF BLUFF.

RV0716'

RV0716'THE STATION MARK IS A STANDARD DISK STAMPED BROWN 1972 CEMENTED FLUSH
 RV0716'IN A DRILL HOLE IN SANDSTONE BEDROCK WITH 4 FEET LONG BY 3 FEET WIDE
 RV0716'EXPOSED. IT IS 19 FEET WEST OF A GNARLED 15-INCH PINE TREE WITH
 RV0716'TRIANGLE BLAZE AND 8.5 FEET NORTH OF THE SOUTH EDGE OF THE CLIFF.

RV0716'

RV0716'REFERENCE MARK NUMBER 1 IS A STANDARD DISK STAMPED BROWN NO 1 1972
 RV0716'CEMENTED IN A DRILL HOLE IN SANDSTONE BEDROCK NEAR THE EAST POINT OF
 RV0716'THE CLIFF. IT IS 24 FEET EAST OF THE PINE TREE WITH TRIANGLE
 RV0716'BLAZE, 2 FEET WEST OF A 1-FOOT CAIRN, AND AT THE SAME ELEVATION AS
 RV0716'THE STATION.

RV0716'

RV0716'REFERENCE MARK NUMBER 2 IS A STANDARD DISK STAMPED BROWN NO 2 1972
 RV0716'CEMENTED IN A DRILL HOLE IN SANDSTONE BEDROCK 10 FEET LONG AND 2
 RV0716'FEET WIDE PROJECTING 3 FEET ON ITS LOWER SIDE. IT IS 29 FEET NORTH
 RV0716'OF THE SOUTH EDGE OF THE CLIFF, 6 INCHES SOUTHEAST OF A 10-INCH
 RV0716'CAIRN AND ABOUT 4 FEET LOWER THAN THE STATION.

RV0716'

RV0716'THE MEASUREMENT FROM R. M. 1 TO R. M. 2 WAS BLOCKED BY ROCKS.

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

SQ0547 *****

SQ0547 DESIGNATION - BROWN

SQ0547 PID - SQ0547

SQ0547 STATE/COUNTY- MT/GARFIELD

SQ0547 COUNTRY - US

SQ0547 USGS QUAD - FROELICH BUTTE (1967)

SQ0547

SQ0547 *CURRENT SURVEY CONTROL

SQ0547

SQ0547* NAD 83(1992) POSITION- 47 02 47.83003(N) 107 38 26.76143(W) ADJUSTED

SQ0547* NAVD 88 ORTHO HEIGHT - 938.5 (meters) 3079. (feet) VERTCON

SQ0547

SQ0547 GEOID HEIGHT - -14.521 (meters) GEOID12B

SQ0547 LAPLACE CORR - 0.54 (seconds) DEFLEC12B

SQ0547 HORZ ORDER - SECOND

SQ0547

SQ0547.The horizontal coordinates were established by classical geodetic methods

SQ0547.and adjusted by the National Geodetic Survey in July 1992.

SQ0547.

SQ0547.The NAVD 88 height was computed by applying the VERTCON shift value to

SQ0547.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

SQ0547

SQ0547.Significant digits in the geoid height do not necessarily reflect accuracy.

SQ0547.GEOID12B height accuracy estimate available [here](#).

SQ0547

SQ0547.The Laplace correction was computed from DEFLEC12B derived deflections.

SQ0547

SQ0547. The following values were computed from the NAD 83(1992) position.

SQ0547

SQ0547;

	North	East	Units	Scale Factor	Converg.
SQ0547;SPC MT	- 312,432.734	741,183.728	MT	0.99939281	+1 21 36.1
SQ0547;SPC MT	- 1,025,041.78	2,431,705.14	iFT	0.99939281	+1 21 36.1
SQ0547;UTM 13	- 5,213,729.202	299,413.850	MT	1.00009452	-1 56 00.4

SQ0547

SQ0547! - Elev Factor x Scale Factor = Combined Factor

SQ0547!SPC MT - 0.99985519 x 0.99939281 = 0.99924809

SQ0547!UTM 13 - 0.99985519 x 1.00009452 = 0.99994970

SQ0547

SQ0547: Primary Azimuth Mark

Grid Az

SQ0547:SPC MT - WET

052 53 52.0

SQ0547:UTM 13 - WET

056 11 28.5

SQ0547

SQ0547_U.S. NATIONAL GRID SPATIAL ADDRESS: 13TBN9941313729(NAD 83)

SQ0547

PID	Reference Object	Distance	Geod. Az ddmmss.s
SQ0546	WET	APPROX. 5.6 KM	0541528.1
CQ5195	BROWN RM 1	9.030 METERS	26803
CQ5196	BROWN RM 2	11.659 METERS	35750

SQ0547

SQ0547 SUPERSEDED SURVEY CONTROL

SQ0547

SQ0547 NAD 83(1986)- 47 02 47.82718(N) 107 38 26.74087(W) AD() 2

SQ0547 NAD 27 - 47 02 47.84749(N) 107 38 24.37530(W) AD() 2

SQ0547 NGVD 29 (07/19/86) 937.8 (m) 3077. (f) VERT ANG

SQ0547

SQ0547.Superseded values are not recommended for survey control.

SQ0547

SQ0547.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

SQ0547.See file [dsdata.pdf](#) to determine how the superseded data were derived.

SQ0547

SQ0547_MARKER: DD = SURVEY DISK

SQ0547_SETTING: 0 = UNSPECIFIED SETTING

SQ0547

SQ0547 HISTORY - Date Condition Report By

SQ0547 HISTORY - 1967 MONUMENTED USGS

SQ0547

SQ0547 STATION DESCRIPTION

SQ0547

SQ0547'DESCRIBED BY US GEOLOGICAL SURVEY 1967 (EGE)

SQ0547'THE STATION IS LOCATED N. 73 DEG E., ABOUT 12 MI. (AIRLINE)

SQ0547'FROM MOSBY, MONTANA. S. 62 DEG W., ABOUT 8 MI. (AIRLINE) FROM

SQ0547'SAND SPRINGS, MONTANA. IN THE SE 1/4 OF SECTION 22, T.16N.,

SQ0547'R.32E. THE STATION IS ON A PROMINENT HILL ABOUT 1 MI. E. OF THE

SQ0547'BRIDGE ON HIGHWAY 20 OVER CALF CREEK, ON LAND OWNED BY

SQ0547'MR. W. J. BROWN, AND ON THE S. SIDE OF THE HIGHWAY, ABOUT 100

SQ0547'YDS. SE. OF MILE POST 172. THE STATION IS REACHED BY TWO-WHEEL

SQ0547'DRIVE VEHICLE FROM SAND SPRINGS, MONTANA. STATION CAN BE

SQ0547'LOCATED FROM THE JORDAN (NL 13-1) 1--250,000 SERIES MAP.

SQ0547'

SQ0547'STATION MARK--A STANDARD USGS BRONZE TABLET CRIMPED TO A COPPER

SQ0547'WELD ROD DRIVEN TO REFUSAL, (8 FT.), CENTERED IN A 6 IN. DIAMETER

SQ0547'BLACK TILE, 12 IN. LONG, FILLED WITH GRAVEL, AND STAMPED BROWN

SQ0547'ET 1967.

SQ0547'

SQ0547'REFERENCE MARK NO. 1--A STANDARD USGS BRONZE REFERENCE MARK

SQ0547'TABLET CRIMPED TO A COPPERWELD ROD DRIVEN TO REFUSAL (8 FT.),

SQ0547'CENTERED IN A 6 IN. DIAMETER BLACK TILE, 12 INCHES LONG, STAMPED

SQ0547'BROWN ET 1967 RM NO. 1.

SQ0547'

SQ0547'REFERENCE MARK NO. 2--A STANDARD USGS BRONZE REFERENCE MARK

SQ0547'TABLET CRIMPED TO A 1 FT. COPPERWELD ROD, CEMENTED IN DRILL HOLE

SQ0547'IN ROCKY OUTCROP., STAMPED BROWN ET 1967 RM NO. 2.

SQ0547'

SQ0547'THE DISTANCE BETWEEN RM NO. 1 AND RM NO. 2 IS 48.27 FT. (14.713

SQ0547'METERS).

SQ0547'

SQ0547'STATION WET ET 1967 IS VISIBLE FROM THE GROUND AND WILL SERVE

SQ0547'AS THE AZIMUTH MARK.

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

TJ0657 *****

TJ0657 DESIGNATION - BROWN
 TJ0657 PID - TJ0657
 TJ0657 STATE/COUNTY- MT/PHILLIPS
 TJ0657 COUNTRY - US
 TJ0657 USGS QUAD - GUSTIN COULEE (1984)

TJ0657
 TJ0657 *CURRENT SURVEY CONTROL

TJ0657* NAD 83(1992) POSITION- 48 56 17.39895(N) 107 43 49.05539(W) ADJUSTED
 TJ0657* [NAVD 88](#) ORTHO HEIGHT - 878.4 (meters) 2882. (feet) VERTCON

TJ0657
 TJ0657 GEOID HEIGHT - -17.070 (meters) GEOID12B
 TJ0657 LAPLACE CORR - -0.96 (seconds) DEFLEC12B
 TJ0657 HORZ ORDER - FIRST

TJ0657
 TJ0657.The horizontal coordinates were established by classical geodetic methods
 TJ0657.and adjusted by the National Geodetic Survey in July 1992.

TJ0657.
 TJ0657.The NAVD 88 height was computed by applying the VERTCON shift value to
 TJ0657.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

TJ0657
 TJ0657.Significant digits in the geoid height do not necessarily reflect accuracy.
 TJ0657.GEOID12B height accuracy estimate available [here](#).

TJ0657
 TJ0657.The Laplace correction was computed from DEFLEC12B derived deflections.

TJ0657
 TJ0657. The following values were computed from the NAD 83(1992) position.

TJ0657
 TJ0657;

	North	East	Units	Scale Factor	Converg.
TJ0657;SPC MT	- 522,455.799	729,636.957	MT	0.99996254	+1 17 40.4
TJ0657;SPC MT	- 1,714,093.83	2,393,822.04	iFT	0.99996254	+1 17 40.4
TJ0657;UTM 13	- 5,424,175.226	300,062.678	MT	1.00009111	-2 03 33.6

TJ0657
 TJ0657!

	Elev Factor	x	Scale Factor	=	Combined Factor
TJ0657!SPC MT	- 0.99986503	x	0.99996254	=	0.99982757
TJ0657!UTM 13	- 0.99986503	x	1.00009111	=	0.99995613

TJ0657
 TJ0657:

	Primary Azimuth Mark	Grid Az
TJ0657:SPC MT	- BROWN AZ MK	155 00 46.0
TJ0657:UTM 13	- BROWN AZ MK	158 22 00.0

TJ0657
 TJ0657_U.S. NATIONAL GRID SPATIAL ADDRESS: 13UCQ0006224175(NAD 83)

TJ0657

PID	Reference Object	Distance	Geod. Az ddmmss.s
TJ0657	CQ5191 BROWN RM 1	15.340 METERS	03351
TJ0657	CQ5190 BROWN AZ MK		1561826.4
TJ0657	CQ5192 BROWN RM 2	26.830 METERS	27659

TJ0657
 TJ0657
 TJ0657 SUPERSEDED SURVEY CONTROL

TJ0657 NAD 83(1986)- 48 56 17.39889(N) 107 43 49.05336(W) AD() 1
 TJ0657 NAD 27 - 48 56 17.34500(N) 107 43 46.70900(W) AD() 1
 TJ0657 NGVD 29 (07/19/86) 877.7 (m) 2880. (f) VERT ANG

TJ0657
 TJ0657.Superseded values are not recommended for survey control.

TJ0657
 TJ0657.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 TJ0657.See file [dsdata.pdf](#) to determine how the superseded data were derived.

TJ0657
 TJ0657_MARKER: DS = TRIANGULATION STATION DISK
 TJ0657_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

TJ0657

TJ0657	HISTORY	- Date	Condition	Report By
TJ0657	HISTORY	- 1934	MONUMENTED	CGS
TJ0657	HISTORY	- 1963	GOOD	CGS

TJ0657

TJ0657

STATION DESCRIPTION

TJ0657

TJ0657'DESCRIBED BY COAST AND GEODETIC SURVEY 1934 (WRP)

TJ0657'LOCALITY--SEC. 25, T. 37 N., R. 30 E. (APPROX.). THE STATION

TJ0657'IS 41 MILES, AIRLINE, NORTH OF MALTA AND 4 MILES, AIRLINE,

TJ0657'SOUTH OF THE CANADA-UNITED STATES INTERNATIONAL BOUNDARY ON

TJ0657'A HIGH GRASSY HILL OF THE DIVIDE BETWEEN WHITEWATER AND WHITEWATER

TJ0657'EAST FORK CREEKS. IT IS AT THE SOUTH END OF THE HIGHER PART

TJ0657'OF THE DIVIDE (HILLS ONE MILE TO THE NORTH ARE SOMEWHAT HIGHER).

TJ0657'THE STATION IS ON THE HIGHEST HILL IN THE VICINITY 1/2 MILE

TJ0657'SOUTHWEST OF AL. BROWNS RANCH, 1/2 MILE NORTH OF AN EAST-WEST

TJ0657'FENCE AND 60 FEET EAST OF A NORTH-SOUTH SECTION-LINE FENCE.

TJ0657'MARK DESCRIBED IN CONCRETE.

TJ0657'

TJ0657'REFERENCE MARK NO. 1, IS NORTH-NORTHEAST OF THE

TJ0657'STATION.

TJ0657'

TJ0657'REFERENCE MARK NO. 2, IS WEST OF THE STATION.

TJ0657'

TJ0657'THE AZIMUTH MARK, IS SOUTH OF THE STATION AND

TJ0657'EAST OF A RANCH ROAD ON THE TOP OF A SMALL KNOLL WHICH HAS

TJ0657'SEVERAL SCATTERED BOULDERS ON THE TOP.

TJ0657'

TJ0657'THE STATION MAY BE REACHED FROM THE D-Y TRAIL AT THE POINT

TJ0657'WHERE IT TERMINATES AT THE INTERNATIONAL BOUNDARY, BY GOING

TJ0657'SOUTH ON THIS HIGHWAY 2.1 MILES. LEAVE THE MAIN ROAD AND

TJ0657'TURN EAST ONTO SECTION-LINE ROAD AND GO 2.1 MILES, TURN SOUTH

TJ0657'AND GO 2.2 MILES, TURN EAST AND GO 1.0 MILE TO THE CORNER

TJ0657'OF SECTIONS 22, 23, 26 AND 27. PASS THROUGH WIRE GATE AND GO

TJ0657'EASTERLY ON A WINDING ROAD THROUGH THE HILLS 1.1 MILES TO A

TJ0657'FENCE, PASS THROUGH WIRE GATE AND TURN ALONG FENCE LINE ABOUT

TJ0657'0.3 MILE TO TOP OF HIGHEST HILL AND THE STATION.

TJ0657

TJ0657

STATION RECOVERY (1963)

TJ0657

TJ0657'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1963 (LBO)

TJ0657'PREVIOUS DESCRIPTION IS IN QUAD. 481074 STATION 1003.

TJ0657'

TJ0657'STATION, REFERENCE AND AZIMUTH MARK RECOVERED AND FOUND TO BE IN

TJ0657'GOOD CONDITION. STATION IS ON LAND OWNED AND OCCUPIED BY MR. A. D.

TJ0657'BROWN.

TJ0657'

TJ0657'TO REACH THE AZIMUTH MARK FROM THE STATION GO SOUTH-SOUTHEAST

TJ0657'ABOUT 0.35 MILE TO A GATE IN THE EAST-WEST FENCE LINE, PASS THROUGH

TJ0657'GATE AND FOLLOW TRACK ROAD SOUTHERLY ABOUT 0.2 MILE TO MARK ON THE

TJ0657'LEFT AS DESCRIBED.

TJ0657'

TJ0657'TO REACH THE STATION FROM THE ROAD AND RAILROAD CROSSING IN LORING,

TJ0657'GO NORTH ON STATE HIGHWAY 242 GRAVELED ROAD FOR 1.9 MILES TO A FORK,

TJ0657'TAKE RIGHT FORK AND CONTINUE ON HIGHWAY NORTHEAST AND NORTH FOR

TJ0657'7.8 MILES TO A SIDE ROAD RIGHT AND SIGN WHITEWATER. TURN RIGHT

TJ0657'AND GO EAST ON GRADED ROAD FOR 2.0 MILES TO A SIDE ROAD LEFT

TJ0657'BEFORE REACHING A CATTLE GUARD, TURN LEFT AND GO NORTH ON

TJ0657'GRADED ROAD FOR 2.25 MILES TO A SIDE ROAD RIGHT AT CATTLE GUARD,

TJ0657'TURN RIGHT AND FOLLOW GRADED ROAD EAST TOWARD THE HOME OF MR.

TJ0657'BROWN FOR 2.15 MILES TO A FORK ABOUT 125 FEET WEST OF A POWER LINE

TJ0657'POLE AT ANGLE IN LINE OF POWER LINE POLES. HERE TAKE RIGHT FORK

TJ0657'AND GO ABOUT 75 FEET TO TOP OF RIDGE, TURN SHARP RIGHT AND FOLLOW

TJ0657'TRACK ROAD ALONG TOP OF RIDGE SOUTHERLY FOR 0.35 MILE TO THE

TJ0657'HIGHEST POINT AND STATION.

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

TK0517 *****

TK0517 DESIGNATION - BROWN

TK0517 PID - TK0517

TK0517 STATE/COUNTY- MT/HILL

TK0517 COUNTRY - US

TK0517 USGS QUAD - KIEHNS COULEE (1970)

TK0517

TK0517 *CURRENT SURVEY CONTROL

TK0517

TK0517* NAD 83(1992) POSITION- 48 44 24.01056(N) 109 57 13.48256(W) ADJUSTED

TK0517* [NAVD 88](#) ORTHO HEIGHT - 885. (meters) 2904. (feet) SCALED

TK0517

TK0517 GEOID HEIGHT - -16.361 (meters) GEOID12B

TK0517 LAPLACE CORR - -0.57 (seconds) DEFLEC12B

TK0517 HORZ ORDER - THIRD

TK0517

TK0517.The horizontal coordinates were established by classical geodetic methods

TK0517.and adjusted by the National Geodetic Survey in July 1992.

TK0517.

TK0517.The orthometric height was scaled from a topographic map.

TK0517

TK0517.Significant digits in the geoid height do not necessarily reflect accuracy.

TK0517.GEOID12B height accuracy estimate available [here](#).

TK0517

TK0517.The Laplace correction was computed from DEFLEC12B derived deflections.

TK0517

TK0517. The following values were computed from the NAD 83(1992) position.

TK0517

	North	East	Units	Scale Factor	Converg.
TK0517; SPC MT	- 499,052.868	566,631.355	MT	0.99985064	-0 19 54.9
TK0517; SPC MT	- 1,637,312.56	1,859,026.76	iFT	0.99985064	-0 19 54.9
TK0517; UTM 12	- 5,399,081.780	576,922.694	MT	0.99967269	+0 47 11.5

TK0517

TK0517! - Elev Factor x Scale Factor = Combined Factor

TK0517! SPC MT - 0.99986391 x 0.99985064 = 0.99971457

TK0517! UTM 12 - 0.99986391 x 0.99967269 = 0.99953665

TK0517

TK0517: Primary Azimuth Mark

TK0517: SPC MT - CHAIN 203 22 58.6

TK0517: UTM 12 - CHAIN 202 15 52.2

TK0517

TK0517_U.S. NATIONAL GRID SPATIAL ADDRESS: 12UWU7692299081(NAD 83)

TK0517

PID	Reference Object	Distance	Geod. Az ddmmss.s
TK0517	TL0616 CHAIN	APPROX.11.4 KM	2030303.7

TK0517

TK0517 SUPERSEDED SURVEY CONTROL

TK0517

TK0517 NAD 83(1986)- 48 44 24.01254(N) 109 57 13.47025(W) AD() 3

TK0517 NAD 27 - 48 44 24.00496(N) 109 57 10.66506(W) AD() 3

TK0517

TK0517.Superseded values are not recommended for survey control.

TK0517

TK0517.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

TK0517.See file [dsdata.pdf](#) to determine how the superseded data were derived.

TK0517

TK0517_MARKER: Z = SEE DESCRIPTION

TK0517_SETTING: 0 = UNSPECIFIED SETTING

TK0517_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

TK0517

TK0517 HISTORY - Date Condition Report By

TK0517 HISTORY - 1904 MONUMENTED USGS

TK0517

TK0517 STATION DESCRIPTION

TK0517

TK0517'DESCRIBED BY US GEOLOGICAL SURVEY 1904

TK0517'ON A FLAT HILL 12 MI. N. OF BURNHAM RAILROAD STATION, NEAR HEAD OF

TK0517'BROWNS COULEE JUST W. OF COTTONWOOD COULEE.

TK0517'

TK0517'STATION MARK - IRON BENCH MARK POST SET 36 IN. IN GROUND.

TK0517'

TK0517'REFERENCE MARKS - NONE.

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

QV0420 *****

QV0420 DESIGNATION - BROWN

QV0420 PID - QV0420

QV0420 STATE/COUNTY- MT/BIG HORN

QV0420 COUNTRY - US

QV0420 USGS QUAD - TAINTOR DESERT (1967)

QV0420

QV0420 *CURRENT SURVEY CONTROL

QV0420

QV0420* NAD 83(1993) POSITION- 45 20 45.49372(N) 106 46 47.92955(W) ADJUSTED

QV0420* [NAVD 88](#) ORTHO HEIGHT - 1333.6 (meters) 4375. (feet) VERTCON

QV0420

QV0420 GEOID HEIGHT - -14.732 (meters) GEOID12B

QV0420 LAPLACE CORR - -3.98 (seconds) DEFLEC12B

QV0420 HORZ ORDER - THIRD

QV0420

QV0420.The horizontal coordinates were established by classical geodetic methods

QV0420.and adjusted by the National Geodetic Survey in January 1997.

QV0420.

QV0420.The NAVD 88 height was computed by applying the VERTCON shift value to

QV0420.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

QV0420

QV0420.Significant digits in the geoid height do not necessarily reflect accuracy.

QV0420.GEOID12B height accuracy estimate available [here](#).

QV0420

QV0420.The Laplace correction was computed from DEFLEC12B derived deflections.

QV0420

QV0420. The following values were computed from the NAD 83(1993) position.

QV0420

QV0420;

QV0420;SPC MT - 125,510.397 813,086.998 MT 0.99980995 +1 59 22.9

QV0420;SPC MT - 411,779.52 2,667,608.26 iFT 0.99980995 +1 59 22.9

QV0420;UTM 13 - 5,022,925.564 360,557.391 MT 0.99983907 -1 15 59.1

QV0420

QV0420! - Elev Factor x Scale Factor = Combined Factor

QV0420!SPC MT - 0.99979327 x 0.99980995 = 0.99960326

QV0420!UTM 13 - 0.99979327 x 0.99983907 = 0.99963238

QV0420

QV0420_U.S. NATIONAL GRID SPATIAL ADDRESS: 13TCL6055722925(NAD 83)

QV0420

QV0420 SUPERSEDED SURVEY CONTROL

QV0420

QV0420 NAD 83(1992)- 45 20 45.49358(N) 106 46 47.92827(W) AD() 3

QV0420 NAD 83(1986)- 45 20 45.47560(N) 106 46 47.91034(W) AD() 3

QV0420 NGVD 29 (02/04/91) 1332.8 (m) 4373. (f) VERT ANG

QV0420

QV0420.Superseded values are not recommended for survey control.

QV0420

QV0420.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

QV0420.See file [dsdata.pdf](#) to determine how the superseded data were derived.

QV0420

QV0420_MARKER: DS = TRIANGULATION STATION DISK

QV0420_SETTING: 66 = SET IN ROCK OUTCROP

QV0420_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

QV0420+STABILITY: POSITION/ELEVATION WELL

QV0420

QV0420	HISTORY	- Date	Condition	Report By
QV0420	HISTORY	- 1966	MONUMENTED	USGS

QV0420

QV0420 STATION DESCRIPTION

QV0420

QV0420'DESCRIBED BY US GEOLOGICAL SURVEY 1966

QV0420'ABOUT 11 MI. S. AND 8 MI. E. OF BUSBY, MONTANA, AND ABOUT 13 MI. W.

QV0420'OF BIRNEY, MONTANA, IN BIG HORN COUNTY.

QV0420'

QV0420'STATION IS LOCATED ON THE RIDGE BETWEEN BULL CREEK AND PRAIRIE DOG

QV0420'CREEK, ON THE S. END OF A SMALL BUTTE.

QV0420'

QV0420'TO REACH FROM BUSBY POST OFFICE, MONTANA, PROCEED W. ON U.S. HIGHWAY

QV0420'212 1.5 MI. TO PAVED RD. S. PROCEED S. 7.3 MI. TO DIRT RD. E. UP

QV0420'TRAIL CREEK (THIS IS ROAD NO. 212). PROCEED E. 6.6 MI. TO T-RD. AT

QV0420'CORRAL. TURN LEFT AND PROCEED E. 2.1 MI. TO TRACK RD. S. PROCEED S.

QV0420'0.4 MI. TO WIRE GATE. PASS THRU GATE AND PROCEED ON E. SIDE OF FENCE

QV0420'2.7 MI. TO Y-RD. TURN LEFT AND PROCEED E. 3.0 MI. TO SMALL TOP ON

QV0420'RIGHT. LEAVE RD. AND GO S. CROSS COUNTRY 0.1 MI. TO S. END OF TOP AND

QV0420'STATION.

QV0420'

QV0420'STATION MARK--STANDARD TABLET SET IN ROCK, STAMPED---BROWN ET

QV0420'1966---.

*** retrieval complete.

Elapsed Time = 00:00:07