

The NGS Data Sheet

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

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DATABASE = ,PROGRAM = datasheet, VERSION = 7.71
1      National Geodetic Survey,  Retrieval Date = SEPTEMBER 30, 2009
HJ0400 *****
HJ0400 DESIGNATION - SEVEN L
HJ0400 PID - HJ0400
HJ0400 STATE/COUNTY- CO/LAS ANIMAS
HJ0400 USGS QUAD - COBERT MESA NORTH (1972)
HJ0400
HJ0400
HJ0400 *CURRENT SURVEY CONTROL
HJ0400
HJ0400* NAD 83(1992)- 37 06 11.60272(N) 103 30 06.01155(W) ADJUSTED
HJ0400* NAVD 88 - 2012.3 (meters) 6602. (feet) VERTCON
HJ0400
HJ0400 LAPLACE CORR- -5.55 (seconds) DEFLEC99
HJ0400 GEOID HEIGHT- -20.47 (meters) GEOID03
HJ0400 HORZ ORDER - FIRST
HJ0400
HJ0400.The horizontal coordinates were established by classical geodetic methods
HJ0400.and adjusted by the National Geodetic Survey in December 1993.
HJ0400
HJ0400.The NAVD 88 height was computed by applying the VERTCON shift value to
HJ0400.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
HJ0400
HJ0400.The Laplace correction was computed from DEFLEC99 derived deflections.
HJ0400
HJ0400.The geoid height was determined by GEOID03.
HJ0400
HJ0400;
HJ0400; North East Units Scale Factor Converg.
HJ0400;SPC CO S - 355,151.766 1,092,026.895 MT 1.00002616 +1 13 32.6
HJ0400;SPC CO S - 1,165,193.75 3,582,758.24 sFT 1.00002616 +1 13 32.6
HJ0400;SPC NM E - 677,254.305 238,921.558 MT 0.99997638 +0 30 06.2
HJ0400;SPC NM E - 2,221,958.50 783,861.81 sFT 0.99997638 +0 30 06.2
HJ0400;UTM 13 - 4,107,373.640 633,139.262 MT 0.99981836 +0 54 14.4
HJ0400
HJ0400! - Elev Factor x Scale Factor = Combined Factor
HJ0400!SPC CO S - 0.99968751 x 1.00002616 = 0.99971367
HJ0400!SPC NM E - 0.99968751 x 0.99997638 = 0.99966390
HJ0400!UTM 13 - 0.99968751 x 0.99981836 = 0.99950593
HJ0400
HJ0400: Primary Azimuth Mark Grid Az
HJ0400:SPC CO S - SEVEN L AZ MK 044 54 26.3
HJ0400:SPC NM E - SEVEN L AZ MK 045 37 52.7
HJ0400:UTM 13 - SEVEN L AZ MK 045 13 44.5
HJ0400
HJ0400|-----|
HJ0400| PID Reference Object Distance Geod. Az |
HJ0400| | | | dddmsss.s |
HJ0400| CM9148 SEVEN L AZ MK 0460758.9 |
HJ0400| CM9150 SEVEN L RM 2 7.622 METERS 10433 |
HJ0400| CM9149 SEVEN L RM 1 6.615 METERS 35709 |
HJ0400|-----|
HJ0400
HJ0400
HJ0400 SUPERSEDED SURVEY CONTROL
HJ0400
HJ0400 NAD 83(1992)- 37 06 11.60909(N) 103 30 06.00656(W) AD( ) 1
HJ0400 NAD 83(1986)- 37 06 11.60715(N) 103 30 06.00265(W) AD( ) 1

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HJ0400 NAD 27 - 37 06 11.53000(N) 103 30 04.19600(W) AD() 1
HJ0400 NGVD 29 (07/19/86) 2011.4 (m) 6599. (f) VERT ANG

HJ0400

HJ0400.Superseded values are not recommended for survey control.

HJ0400.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

HJ0400.[See file dsdata.txt](#) to determine how the superseded data were derived.

HJ0400

HJ0400 U.S. NATIONAL GRID SPATIAL ADDRESS: 13SFB3313907374 (NAD 83)

HJ0400_MARKER: DS = TRIANGULATION STATION DISK

HJ0400_SETTING: 66 = SET IN ROCK OUTCROP

HJ0400

HJ0400	HISTORY	- Date	Condition	Report By
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HJ0400	HISTORY	- 1922	MONUMENTED	CGS
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HJ0400	HISTORY	- 1945	GOOD	CGS
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HJ0400	HISTORY	- 1958	GOOD	CGS
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HJ0400	HISTORY	- 1958	GOOD	CGS
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HJ0400

HJ0400

STATION DESCRIPTION

HJ0400

HJ0400'DESCRIBED BY COAST AND GEODETIC SURVEY 1922 (CMD)

HJ0400'ON MESA DE MAYA, ABOUT 6 MILES N OF THE STATE LINE, 7 MILES

HJ0400'SW OF THE OLD SEVEN L RANCH, 2 MILES S OF THE MONTOYA PLACE,

HJ0400'ON THE HIGHER ONE OF THE TWO ROCKY HILLS KNOWN AS SEVEN L OR

HJ0400'BLACK BUTTES, MIDWAY BETWEEN TWO PILES OF ROCKS.

HJ0400'

HJ0400'STATION MARK IS A BRONZE STATION DISK SET AS DESCRIBED.

HJ0400'

HJ0400'REFERENCE MARKS ARE BRONZE REFERENCE DISKS, SET,

HJ0400'AT THE FOLLOWING DISTANCES AND BEARINGS FROM THE

HJ0400'STATION--NO. 1, 6.62 METERS (21.7 FEET).

HJ0400'NO. 2, 7.66 METERS (25.1 FEET).

HJ0400

STATION RECOVERY (1945)

HJ0400

HJ0400'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1945 (CAE)

HJ0400'ALL MARKS RECOVERED IN GOOD CONDITION.

HJ0400'

HJ0400'THE STATION IS LOCATED ON THE MESA DE MAYA, BY APPROXIMATE

HJ0400'AIR LINE DISTANCES, 22 MILES ENE OF BRANSON, 13 MILES SE

HJ0400'OF TOBE POST OFFICE, AND 7 MILES N OF THE COLORADO-NEW MEXICO

HJ0400'STATE LINE. IT IS ON THE HIGHER AND MORE CENTRAL ONE OF

HJ0400'SEVERAL ROCKY BUTTES KNOWN AS SEVEN L OR BLACK BUTTES.

HJ0400'

HJ0400'THE DESCRIPTION FOR REACHING THE STATION SHOULD BE REVISED

HJ0400'TO READ AS FOLLOWS--FROM THE STONE GARAGE IN BRANSON, GO

HJ0400'W ONE BLOCK, THEN N ON STATE HIGHWAY 55 FOR 0.45 MILE. CONTINUE

HJ0400'STRAIGHT AHEAD ON U.S. HIGHWAY 160 N 10.0 MILES, BEAR RIGHT

HJ0400'ON THE RIGHT FORK AND CONTINUE ON U.S. HIGHWAY 160 E 15.8

HJ0400'MILES TO TOBE POST OFFICE ON THE LEFT. CONTINUE E ON U.S.

HJ0400'HIGHWAY 160 FOR 5.0 MILES TO A TRACK ROAD LEFT OVER A CATTLE

HJ0400'GUARD AND A GRADED ROAD RIGHT. TURN RIGHT, OFF U.S. 160,

HJ0400'AND GO S FOR 3.0 MILES TO AN E-W GRADED ROAD AT EDWARDS

HJ0400'STORE. CONTINUE S, PASSING TO RIGHT OF THE STORE, 0.05

HJ0400'MILE, PASS THROUGH GATE IN FENCE LINE AND CONTINUE ON GRADED

HJ0400'ROAD 2.1 MILES TO WHERE IT AGAIN PASSES THROUGH A FENCE

HJ0400'LINE. CONTINUE 0.25 MILE TO A RIGHT FORK, A TRACK ROAD,

HJ0400'JUST AFTER CROSSING SMALL WASH. TURN RIGHT ON THE TRACK

HJ0400'ROAD 0.4 MILE TO A FENCE CORNER AND ROAD COMING IN FROM

HJ0400'THE LEFT. BEAR RIGHT AROUND FENCE CORNER AND GO 0.8

HJ0400'MILE TO A GATE IN FENCE LINE ON TOP OF THE MESA.

HJ0400'CONTINUE 1.3 MILES TO A GATE IN A N-S FENCE, ENTER AND

HJ0400'GO ABOUT 100 YARDS, TURN LEFT THROUGH GATE, GO ABOUT

HJ0400'100 FEET AND GO THROUGH STILL ANOTHER GATE, THEN FOLLOW

HJ0400'TRACK ROAD E 0.4 MILE TO A FORK. TAKE LEFT FORK 0.7 MILE,

HJ0400'THENCE LEFT FORK AGAIN FOR 1.5 MILES TO A GATE. GO THROUGH

HJ0400'AND CONTINUE 0.45 MILE, THEN TURN RIGHT OFF THE ROAD

HJ0400'AFTER COMING UP OUT OF A SMALL CANYON. DRIVE ACROSS

HJ0400'COUNTRY S TOWARDS THE LEFT OF THREE SMALL PEAKS 0.2 MILE TO
HJ0400'THE AZIMUTH MARK BY A ROCK CAIRN. CONTINUE 0.1 MILE
HJ0400'INTO GRASSY CANYON, THEN BEAR RIGHT UP VALLEY AND THROUGH
HJ0400'A FENCE 0.25 MILE TO THE END OF TRUCK TRAVEL AT A LOG
HJ0400'DUGOUT. PACK S UP THE STEEP SLOPE FOR 10 MINUTES TO
HJ0400'THE TOP AND THE STATION.

HJ0400'
HJ0400'STATION MARK IS A BRONZE STATIN DISK SET IN A DRILL HOLE IN
HJ0400'OUTCROPPING BEDROCK WHICH PROJECTS ABOUT 2 INCHES ABOVE
HJ0400'THE GROUND. IT IS LOCATED 33 FEET WNW OF THE HIGHEST POINT
HJ0400'OF THE HILL. DISK IS STAMPED SEVEN L 1922.

HJ0400'
HJ0400'REFERENCE MARK 1 IS A BRONZE REFERENCE DISK SET IN A DRILL
HJ0400'HOLE IN OUTCROPPING BEDROCK WHICH PROJECTS ABOUT 1 FOOT ABOVE THE
HJ0400'GROUND. IT IS LOCATED N OF THE STATION AND ABOUT 1 FOOT
HJ0400'LOWER. DISK IS STAMPED SEVEN L NO 1 1922.

HJ0400'
HJ0400'REFERENCE MARK 2 IS A BRONZE REFERENCE DISK SET IN A DRILL
HJ0400'HOLE IN OUTCROPPING BEDROCK WHICH PROJECTS ABOUT 1-1/2 FEET ABOVE
HJ0400'THE GROUND. IT IS LOCATED ESE OF THE STATION AND ABOUT
HJ0400'2-1/2 FEET HGHER. DISK IS STAMPED SEVEN L NO 2 1922.

HJ0400'
HJ0400'AZIMUTH MARK IS A BRONZE AZIMUTH DISK SET IN A DRILL HOLE IN
HJ0400'OUTCROPPING BEDROCK WHICH PROJECTS ABOUT 3 INCHES ABOVE THE
HJ0400'GROUND. IT IS LOCATED NE OF THE STATION AND 4-1/2 FEET SE
HJ0400'OF A 4-FOOT ROCK CAIRN. DISK IS STAMPED SEVEN L 1945.

HJ0400
HJ0400 STATION RECOVERY (1958)

HJ0400
HJ0400'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1958 (JCL)
HJ0400'THE STATION, BOTH REFERENCE MARKS AND THE AZIMUTH MARK WERE
HJ0400'RECOVERED IN GOOD CONDITION AS DESCRIBED BY C.A.E. IN 1945
HJ0400'EXCEPT THAT THE DIRECTIONS FOR REACHING THE STATION SHOULD
HJ0400'BE CHANGED FROM TO A GATE IN THE FENCE LINE ON TOP OF THE
HJ0400'MESA. IT SHOULD THEN READ CONTINUE FOR 0.5 MILES TO A DIM
HJ0400'FORK. HERE TAKE LEFT FORK (DIM TRACK ROAD) FOR 0.8 MILE
HJ0400'TO A GATE IN A NORTH SOUTH FENCE. FROM THIS GATE FOLLOW 1945
HJ0400'DIRECTIONS TO STATION.

HJ0400'
HJ0400'THE 1945 RECOVERY NOTE IS ADEQUATE AND COMPLETE EXCEPT AS NOTED.

HJ0400
HJ0400 STATION RECOVERY (1958)

HJ0400
HJ0400'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1958 (REW)
HJ0400'THE STATION MARK, REFERENCE MARKS 1, 2 AND THE AZIMUTH MARK
HJ0400'WERE RECOVERED AND FOUND TO BE IN GOOD CONDITION. THE
HJ0400'MEASUREMENTS TO THE REFERENCE MARKS WERE FOUND TO BE THE
HJ0400'SAME AS STATED IN THE 1945 RECOVERY. THE DIRECTIONS TO
HJ0400'REFERENCE MARKS 1 AND 2 FROM THE AZIMUTH MARK CHECKED BY
HJ0400'16 SECONDS AND 44 SECONDS RESPECTIVELY. THIS STATION WAS
HJ0400'ALSO VERIFIED BY OBSERVING TWO SUN AZIMUTHS. THE DESCRIPTION
HJ0400'SUBMITTED BY C.A.E. IN 1945 IS ADEQUATE EXCEPT THAT THE
HJ0400'DIRECTIONS FOR REACHING THE STATION SHOULD BE CHANGED FROM TO
HJ0400'A GATE IN THE FENCE LINE ON TOP OF THE MESA. IT SHOULD THEN
HJ0400'READ CONTINUE FOR 0.5 MILE TO A DIM FORK. HERE TAKE LEFT
HJ0400'FORK (DIM TRACK ROAD) FOR 0.8 MILE TO A GATE IN A NORTH
HJ0400'SOUTH FENCE. FROM THIS GATE FOLLOW THE 1945 DIRECTIONS TO
HJ0400'THE STATION.

*** retrieval complete.
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