UNITED STATES
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

GEODETIC CONTROL DIAGRAM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Base prepared by the Army Map Service (AJART), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1955 by photogrammetric methods. Horizontal and vertical control by USGS, USC&GS, and CE. Aerial photography 1953. Photography field annotated 1954.

US COMM-CGS-DC-AUGUST 1963 A-4903

HORIZONTAL CONTROL

Coast & Geodetic Survey	Geological Survey	
△	▲	Monumented Point - First Order
△	▲	Monumented Point - Second Order
▲	▲	Monumented Point - Third Order
○	○	Located Object - Third Order
60		See separate index for names of numbered stations
WASHINGTON		Station reported not recovered
		Measured Base - Electronic or Taped
		Line of triangulation observed
		Line of triangulation observed from one end only
		Measured Length - Electronic or Taped
		Theodolite Traverse - Electronic Distance
		Transit Traverse - Taped Distance Third Order
		Transit Traverse and Leveling Third Order

VERTICAL CONTROL

Coast & Geodetic Survey	Geological Survey	
		First Order
		Second Order
		Third Order

STATE SURVEY CONTROL

Horizontal or Vertical

Scale 1:250,000

5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometers
25,000 0 25,000 50,000 75,000 100,000 Feet

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TRANSVERSE MERCATOR PROJECTION

TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY

LOCATION DIAGRAM FOR NL 12-9

NL 12-5 WHITE SULPHUR SPRINGS	NL 12-6 ROUNDUP MONTANA	NL 13-4 FORSYTH
BOZEMAN NL 12-8	BILLINGS NL 12-9	HARDIN NL 13-7
NL 12-11 ASHTON	NL 12-12 CODY	SHERIDAN NL 13-10 WYOMING

IDAHO

LEGEND
ROAD DATA 1954

ROADS
Hard surface, heavy duty
More than two lanes wide
Two lanes wide; Federal route marker
Hard surface, medium duty
More than two lanes wide
Two lanes wide; State route marker
Improved light duty
Unimproved Dirt
Trail

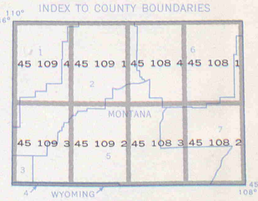
RAILROADS
Single track Double or Multiple
Standard gauge
Narrow gauge

BOUNDARIES
International
State
County
Park or reservation

Landmarks: School; Church; Other
Horizontal control point
Spot elevation in feet
Marsh or swamp
Intermittent or dry stream
Power line

COAST AND GEODETIC SURVEY
THIRTY MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES



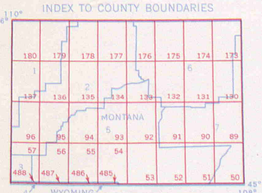
ORDER CONTROL DATA IN BLACK BY 30 MINUTE QUADRANGLE UNITS FROM DIRECTOR, COAST AND GEODETIC SURVEY, WASHINGTON 25, D. C.

COUNTY DESIGNATIONS

1 Sweet Grass
2 Stillwater
3 Park
4 Park
5 Carbon
6 Yellowstone
7 Big Horn

GEOLOGICAL SURVEY
FIFTEEN MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES



MONTANA	MONTANA (Cont.)	MONTANA (Cont.)
50 Hillsboro	94 Red Lodge No. 2	175 Acton
51 Pryor Mtns. No. 3	95 Nye No. 1	176 Molt
52 Warren	96 Mount Wood	177 Stillwater No. 1
53 Bowler No. 3	130 Huntley No. 4	178 Stillwater No. 2
54 Red Lodge	131 Huntley No. 3	179 Big Timber No. 1
55 Red Lodge No. 3	132 Mossmain	180 Big Timber No. 2
56 Nye No. 4	133 Laurel	
57 Nye No. 3	134 Stillwater No. 4	WYOMING
89 Pryor Mtns. No. 1	135 Stillwater No. 3	
90 Pryor Mtns. No. 2	136 Big Timber No. 4	485 Red Lodge
91 Pryor	137 Big Timber No. 3	486 Red Lodge No. 3
92 Bridger	173 Huntley No. 1	487 Nye No. 4
93 Red Lodge No. 1	174 Huntley No. 2	488 Nye No. 3

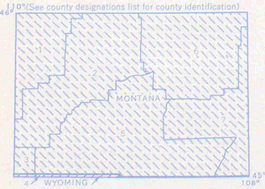
ORDER CONTROL DATA IN RED BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR GEOLOGICAL SURVEY, WASHINGTON 25, D.C.

BILLINGS, MONTANA; WYOMING
(NL 12-9)
JUNE 1963

PLANE COORDINATE ZONES
MONTANA SOUTH WYOMING WEST CENTRAL

100,000-FOOT PLANE COORDINATE GRID TICK SYMBOLS
MONTANA SOUTH --- WYOMING WEST CENTRAL

INDEX TO COUNTY BOUNDARIES
(See county designations list for county identification)



BILLINGS, MONTANA; WYOMING (NL 12-9)
JUNE 1963