LEGEND			
POST-GLACIAL DEPOSITS			
14 Swamp deposits		GI SURVEY DE LA COMPANIE DE LA COMPA	
Undifferentiated deposits (includes exposed bedrock on eroded valley walls): colluvium, thin till over bedrock, Quaternary alluvium in small stream valleys; 13a, till and alluvium, bedrock not exposed	RE CONTROL PRELIMINARY SERIES	GEOLOGICAL SURVEY OF CANADA DEPARTMENT OF MINES AND TECHNICAL SURVEYS	62K
Stream deposits (alluvium present on flood plains): sand, silt, gravel; local exposures of eroded till and bedrock	102° 00′ 45′ 30′ 15′ 15′ 15′ 15′ 15′ 15′ 15′ 15′ 15′ 15	101°00′ 45′	30° 15° 100° 00° 10° 51° 00°
Wind deposits (includes areas of blowouts); dunes formed on outwash deposits: sand	3a 3	2b 2b 2b 2b 2b 2b 2b 2b	1a 1
LATE GLACIAL AND EARLY POST-GLACIAL DEPOSITS	3b 13a 9 13a	13 12 4b 13	26
10 Lake deposits: clay, silt, sand; 10a, silt and clay	3b 3a 3a 7 6a 3a 3a 7	Custer La Go Marchael Go 13	4b Camarik L
9 Stream terrace deposits: gravel, sand; exposures of eroded till; 9a, gravel and sand, 10 feet to 50 feet thick; 9b, chiefly eroded	3b 3a 3c 12 13 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Ross 4c Shoe 7c	2b 2b 2c
Stream deposits (alluvium laid down in and along ice marginal channels): gravel, sand	Churchbridge 3a)	6a 6a	Microwave About Ligouet I About L
channels): gravel, sand  GLACIAL DEPOSITS	3b 6c 3a 6c 6c 3a	2c 7c 7c	PARK PARK
Ice Contact deposits: sand, gravel, minor till; 7a, kames; 7b, eskers; 7c, kame moraines consisting of kames, eskers, and	3b 3a Sangenbarg	Silve Brac B. Silve Beach S. Rutlen 44 50	4b Ac 4c
numerous linear ridges	3a 1c	4c (10a) 4c (6a) (9a) 13 7c	- Os Charles And C
Outwash: gravel, sand, silt; 6a, pitted: chiefly gravel; 6b, non-pitted: chiefly sand; 6c, non-pitted: chiefly gravel; 6d, present in deltas, gradational to lake deposits; 6e, hummocky: chiefly	3a Ga 3b (3a 3a) (3a) (3a) (3a) (3a) (3a) (3a) (	2c 4c 99a	Whitewater Lake 14 Jacklish L 4b 1
silt, lake deposits in part	3a	1c 1c 9a 4b 5 10a	4c 4c 4c
Moraine plateaux and rim ridges: till, silt, clay, gravel  Hummocky stagnation moraine (knob and kettle topography	45' 3b 6c 2c	6e /3a /2b	4c 2b 45'
exhibiting circular ridges and depressions): till; 4a, flat to gently undulating, perhaps subdued by lakewater or meltwater	30	1b ) 1b 2b 25	40
erosion (patterns detectable on air photos only); 4b, average relief less than 10 feet; 4c, average relief between 10 feet and 25 feet; 4d, average relief greater than 25 feet	99 93 3a	Prof 13 The State of the state	5 6e (14) (2) 6e (14) (4a) (4a) (4a) (4a) (4a) (4a) (4a) (4
Ridged recessional moraine (knob and kettle topography exhibiting strong alignment of depressions, ridges and knolls):	ON SIN CONTRACTOR OF THE PROPERTY OF THE PROPE	2b 2b 4b	6a 6e
till; 3a, flat to gently undulating, patterns subdued, perhaps by lakewater or meltwater erosion; 3b, average relief less than 10 feet; 3c, average relief between 10 feet and 25 feet; 3d, average	3a 3a 3a		6b (9a) 39a 4c (6e) 6a
relief greater than 25 feet  Irregular recessional moraine (flat to undulating till plains with	330 - 3b 13 13 13 13 13 13 13 13 13 13 13 13 13	28	5 4b 6a 75 6a 6b
belts or patches of knob and kettle topography): till; 2a, subdued by lakewater or meltwater erosion; 2b, average relief less than	3b 7a 3a 1c	10	Rough Ge Ga Ga Managarin Ge Ge Ga
10 feet; 2c, average relief between 10 feet and 25 feet; 2d, average relief greater than 25 feet	7a 0 13 1a	26 / 2/26	10a
Ground moraine (drumlinized bedrock hills, drumlins, and flutings common, bedrock generally less than 10 feet below surface): till; 1a, modified by lakewater or meltwater erosion; 1b, flat to	(ab 11) (ab 12) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	1b (20) 2b	13 50
moderate relief, in part modified by lakewater or meltwater erosion; 1c, strongly rolling; 1d, drumlinized hill or drumlin	1c 13 3b 66 6b	2b (6 22 2c 0)	2b 4b 4c Ray ham Lake
CRETACEOUS  Bedrock (exposed or covered by less than 1 foot of drift), Riding	50 12 10 1c		Morrace Marian Ac 5 and Lake Sayds Lake 100
Mountain Formation: grey to greenish grey, soft shale; light grey, hard, siliceous shale	30' la la la 6c' la la la la la 6c' la	7b5 13 1c	30°
Bedrock outcropx	13 12 1a 3a 6c 12 12 11 6c 12	1c Reflection Canada Reflection	2b   05 Little active 55   05 Little active
Geological boundary (defined, approximate)	3a 6c 6c 6c 1a 1a 136c 3	2a / 5/8/ 2a	40
ridges, flutings (actual length indicated)	1a 6b 1c	2b 3	Shoa La 2c
Esker ridge: gravel, sand, silt (direction of flow defined, not defined)	3b 7a 11 (6c) 11 (6c)	loc S	13.298
Moraine ridge, crevasse filling, or ridge of unknown origin: till, gravel, sand (approximate length	1b Rocanvilla 3a	330/130	13 133 67 330
indicated)	1a 13 2 1a	1a 6c 2b	
Meltwater channel (major channel, minor channel)	1b 1b 6b 577	1213 A 12	2b 2b 2c 4c
(commonly bedrock) by sub-glacial stream that elsewhere deposited esker ridge.		660	
Erosional remnant: bedrock hill with drift cover less than 10 feet thick	3c 6b 6c	13 13 22	Buchman Basswork
Geology by R. W. Klassen, 1961-64	Wapella 3b 66	Doctor SS	2c de la constant de
Geological cartography by the Geological Survey of Canada, 1965	15 3c 3b 1b	13 6c 13 (2b)	15'
	3b 3b 3b	6c To 525 X	200 200
Road, all weather	3b 3b 3b 3b	12 6c (1a) 6c) 2c	A POLICE A DE LA POLICE DE LA P
Cart track	3b 3b 3b 3b	1a 1b 15	26
Railway Post Office.	3c 3	b 3a 13a 6c	2b 13 a 13a
Provincial boundary	3b 3b 3c 3b	3a 3a 3a	20 20 20 130
Section line	2b 3c 7 6 3c 3c 3c 3c 3c 3c	13 13 7c 7c 2d	2c 2b
Indian reserve	2b 7c 6 3 3c 3b 3b 3b 3c	3a la la	20 /20
Intermittent lake and stream  Marsh	3b 3c 3b 3c 3b 3c 3b	6c   12	2a 2c 2c (2) (6c) 2b
Contours (interval 100 feet)	2b 2b 3c	3a 1a 1a 6c	1c Privers Dam
Base-map compiled and drawn by the Surveys and Mapping Branch, 1963	2b 3b 2b 6c 3c 3b)6c 3b	3b 13 13 1a 6c 1a	1a 6d 13 2c 2c 2)
Mean magnetic declination, 13°25' East, decreasing 1.8' annually.	IO2°O0′ Published, 1966 Copies of this map may be obtained from the	101°00′ 45′	30'  15'  Printed by the Surveys and Mapping Branch
Readings vary from 12°22' in the SE corner to 14°27' in the NW corner of the map-area	Copies of this map may be obtained from the Director, Geological Survey of Canada, Ottawa	MAP 16-1965	
		RIDING MOUNTAIN	
Con the second s		WEST OF PRINCIPAL MERIDIAN	MAP 16-1965 RIDING MOUNTA
EMSON EMSON		MANITOBA-SASKATCHEWAN  Scale 1:253,440	MANITOBA-SASKATCH 62K
		Scale 1:253,440  1 inch to 4 miles  Miles 4 0 4 8 12 Miles	
		Kilometres 6 0 6 12 18 Kilometres	
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