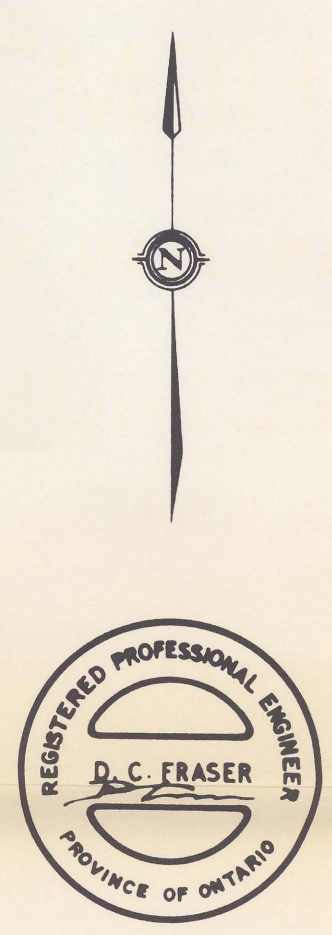
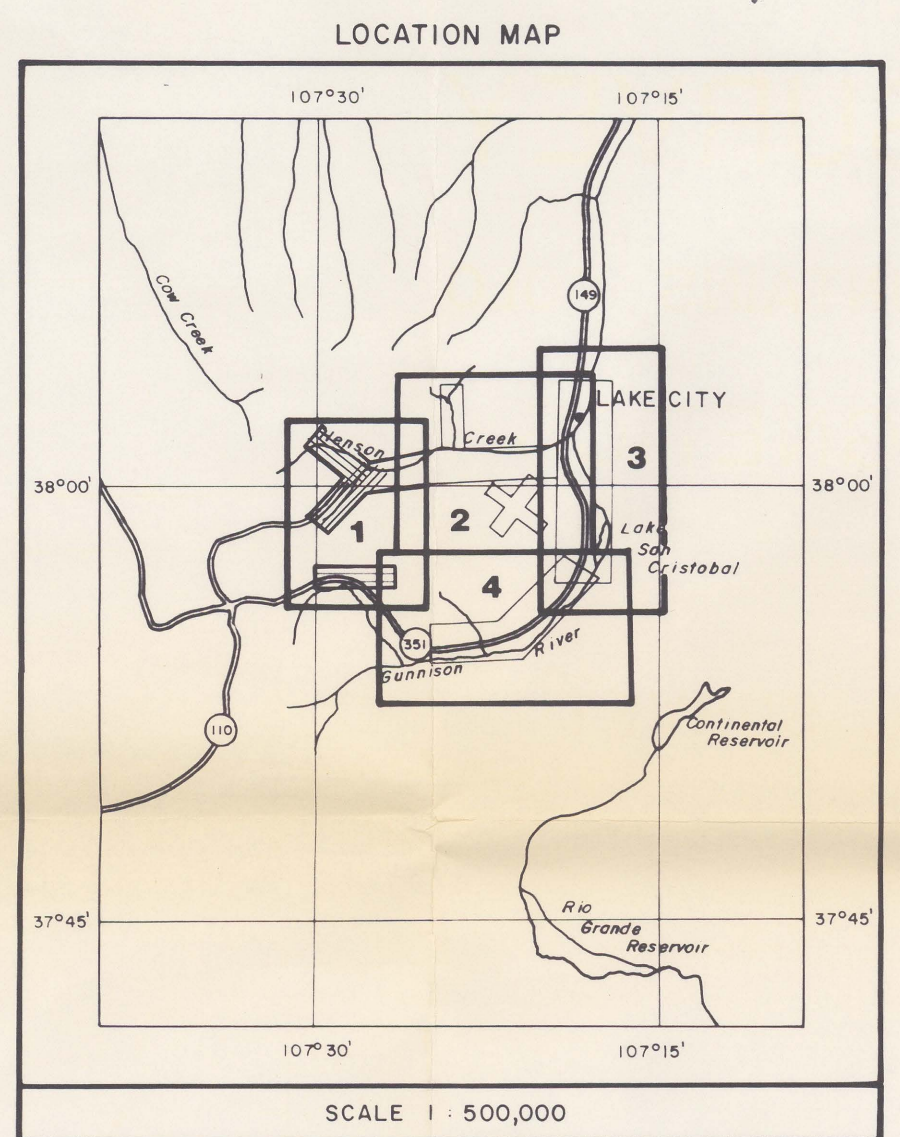
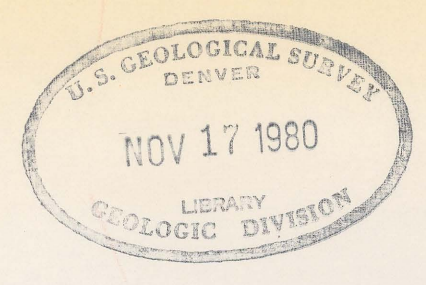


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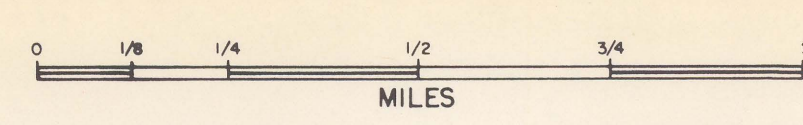
DIGHEM^{II} SURVEY

WESTERN SAN JUAN MOUNTAINS, COLORADO

ELECTROMAGNETICS

FOR

U.S. GEOLOGICAL SURVEY



Flight line

Fiducials and numbers

ANOMALY GRADE	EM GRADE SYMBOL	WHO RANGE	DIGHEM anomalies are divided into six grades of conductivity-thickness product. This product in mhos is the reciprocal of resistance in ohms. The mho is a measure of conductance, and is a geologic parameter. Most twomips yield Grade 1 anomalies but highly conducting clays can give Grade 2 anomalies. The multi-coil anomaly shapes often allow surface conductors to be recognized, and these are indicated by the letter S on this map. The remaining Grade 1 and 2 anomalies could be weak bedrock conductors. Examples: The ore bodies of the Mogro River camp yield Grade 4 anomalies, while Mohabi and Whittle give Grade 5. Graphite and sulphides can span all grades but, in this survey area, field work may show that the different grades indicate different types of conductors.
6	●	≥ 100	<p>The actual mho value is plotted beside the EM grade symbol. The letter in the anomaly identifier. The horizontal row of dots indicate anomaly amplitude on the flight record, and the vertical column gives the estimated depth. This depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or conductive overburden effects.</p> <p>DIGHEM maps are designed to provide a correct impression of conductor quality by means of the conductor grade symbol. The symbols are sized along with geology when planning a follow-up program. The actual mho values are plotted for those who wish quantitative data. The anomaly gain and depth are indicated by inconspicuous dots which should not distract from the conductor patterns, while being helpful to track who wish this information. The map provides an interpretation of all conductors in terms of length, strike direction, conductance, and depth. The accuracy is comparable to an interpretation from a ground EM survey having the same line spacing.</p>
5	●	50-99	
4	●	20-49	
3	●	10-19	
2	○	5-9	
1	○	≤ 4	
	X	Possible conductor	
Identifier	— mho value		
5	—	50-99	
4	—	20-49	
3	—	10-19	
2	—	5-9	
1	—	≤ 4	
	X	Possible conductor	
			Refer to list of anomalies in separate report for the actual mho values for all sites, and for conductor depths.
5	—	Possible surface response	
L	—	Possible line power, telephone, pipe, or fence	
L?	—	Possible line	
?	—	Questionable anomaly	
○	—	Apparent thickness > 10m	
1004	—	Direct magnetic correction of 100 gamma	