Department of Energy, Mines and Resources, Ottawa, or your nearest map dealer.

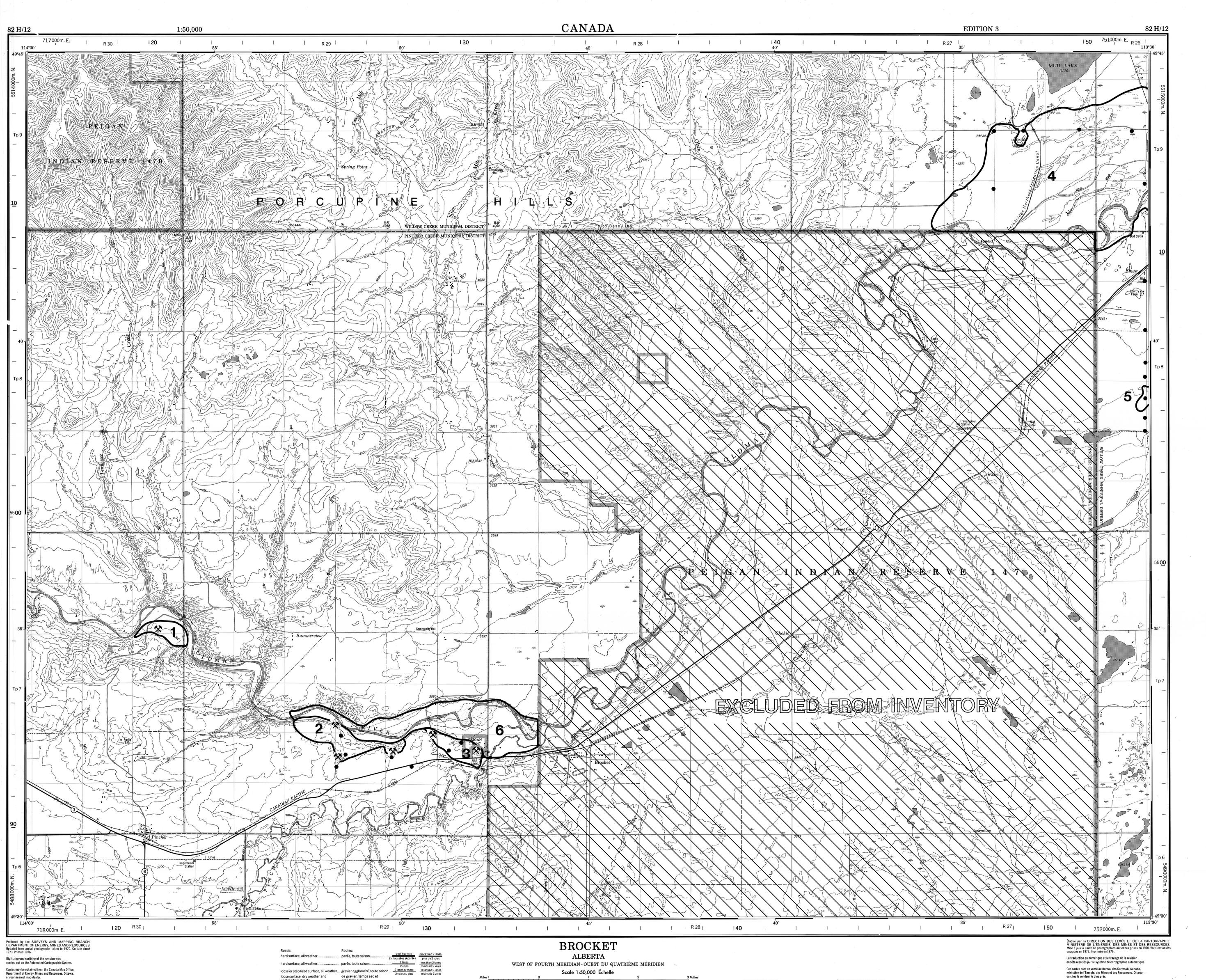
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loose surface, dry weather and de gravier, temps sec et unclassified streets......rues hors classe.....

cart track...... de terre...... de terre.....

trail or portage......sentier ou portage.....sentier ou portage....

FOR COMPLETE REFERENCE SEE REVERSE SIDE POUR UNE LISTE COMPLÈTE DES SIGNES, VOIR AU VERSO



Miles 1 0 1

Metres 1000 0 1000 2000 3000 4000 Mètres

Yards 1000 0 1000 2000 3000 4000 Verges

CONTOUR INTERVAL 50 FEET

Elevations in Feet above Mean Sea Level

North American Datum 1927

Transverse Mercator Projection

ÉQUIDISTANCE DES COURBES 50 PIEDS

Élévations en pieds au-dessus du niveau moyen de la mer

Système de référence géodésique nord-américain, 1927

GENERAL COMMENTS DEPOSIT CHARACTERISTICS

Deposit Number	Material Description	Rese (1000 Gravel	0 m³)	Additional Comments	Gravel	Texture (%) Sand		(%) Wear	Overburden Thickness (m)	Deposit Thickness (m)	Deposit Area (ha)	Deposit Genesis	Additional Comments
1	Gravel	646	98	Gravel coarse; sand coarse and medium grained, clean.	86.1	13.0	0.9	, I	1.3	2.1 to 3.7 Avg. 2.4	60	Valley train	
2	Sandy gravel	1783	718	Gravel coarse and fine; sand coarse to fine grained, clean.	71.3	28.7	0.3	-	O to 1.5	1.8 to 4.6 Avg. 3	97	Outwash	
3	Sandy gravel	935	352	Gravel coarse and fine; sand coarse and medium grained, clean.	69.5 to 74.3	24.9 to 29.4	0.8 to 1.1	-	O to 1	2.1 to 3.7 Avg. 2.4	60	Valley train	
4	Sandy gravel	101700	46650	Gravel coarse and fine; sand coarse to fine grained, clean.	57.5 to 77.5	21.1 to 40.5	0.4 to 1.4	-	, 0	1.5 to 7.6 Avg. 3	4920	Valley train	Deposit continues on NTS 82H/11.
5	Sandy gravel	980	420	Sand fine to coarse, clean; gravel mainly fine.	≃70	≃30	≃0	-	o	10.7	24	Outwash	Deposit continues on NTS 82H/11.
6	-		-	Assumed on basis of surface mapping or airphoto interpretation.	-	-	-	-	-	-	-	Recent alluvial	
												×	
						~							

Deposit Number — Granular deposits shown on this map may have commercial possibilities. That assumption followed from two criteria used in the mapping process: study of the area considered only granular deposits greater than one metre thick, and covering an area more than one hectare; and it only considered deposits where the mineral-aggregate thickness was greater than the overburden thickness. Although the scale of mapping did not permit investigation of all small deposits, many small deposits containing existing pits are indicated

Material Description — Sand and gravel has a variety of applications, such as concrete for construction, asphalt concrete, subbase and base course aggregate for roads, gravel and sand for road surfaces, and pit run for fill. Gradation, rock hardness, and binding characteristics, are some of the specific qualities that are considered in aggregate towards determining its end use. This map indicates these, and other, geological qualities of the sand and gravel within each deposit, but does not indicate their potential uses. The terms used in the table are defined in the figure below.

Reserves — The method of calculating in cubic metres the aggregate reserves of deposits took four basic steps. First, the area, in hectares, of each deposit was determined using aerial photographs. Second, geological interpretation, sometimes supported by subsurface information, was assumed in determining the geometry of each deposit, to estimate an overall, average deposit thickness in metres. Third, geological study and limited sample analyses determined the texture (gradation) of sediments in the deposit, and an overall average percentage of gravel and sand. Finally, the volume was calculated as follows: reserve gravel (m^3) = area (ha) × thickness (m) × 10,000 × % gravel; the same formula was used for sand.

Texture — The texture of the sediment refers to the percentage of particles of various sizes. For mineral aggregate, the most important fractions are the gravel and sand. The actual dimensions of the clasts and particles in these fractions are given in the figure. The values given for a particular deposit were determined from a field estimate, or from laboratory analysis, of one or more samples from that deposit. Where more than one sample is taken the tabulated number is the mean value.

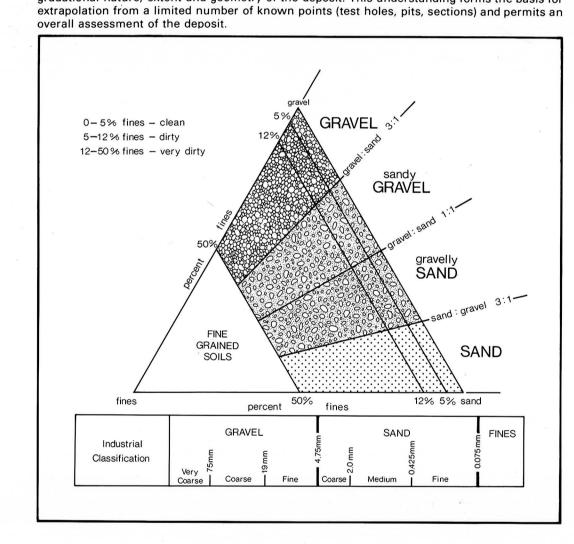
Wear — The resistance of gravel-size clasts to wear or abrasion can be measured in a laboratory test (ASTM-C131, Los Angeles Abrasion Testing). The amount of material that breaks down into smaller sizes is measured and related to the original sample weight in terms of percent wear. The higher the percentage wear the more susceptible the gravel is to breakdown under stress. Gravel with a percentage wear of less than 40 is considered very resistant.

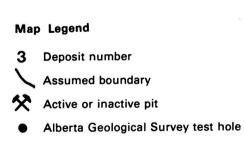
Overburden Thickness — The thickness of non-economic material, or overburden, covering a deposit, sometimes is a limiting factor in the exploitation of an aggregate deposit. The tabulated values given are approximate overburden thicknesses as determined from geological investigations and subsurface testing.

Deposit Area — Deposits in this study were delineated by interpretation of aerial photographs and the contacts should be considered approximate. Information is precise only where test holes, or

geological sections, are indicated.

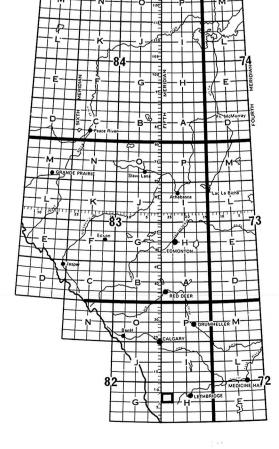
Deposit Genesis — The genesis, or formation, of deposits is vital to the understanding of the gradational nature, extent and geometry of the deposit. This understanding forms the basis for





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▲ Sand or gravel exposure // Buried sand or Gravel deposit





Alberta Geological Survey

This is a sand and gravel resource map prepared by the Alberta Geological Survey as part of a series at a scale of 1:50,000. The series represents an ongoing aggregate inventory of Alberta which provides data for general land-use planning, land management or aggregate exploration. Please note that the delineation of deposits and calculation of reserves are approximations only. Alberta Energy and Natural Resources provides financial support for the

Geology and compilation by I. Shetsen; revised from Earth Sciences

AGGREGATE RESOURCES

BROCKET 82H/12