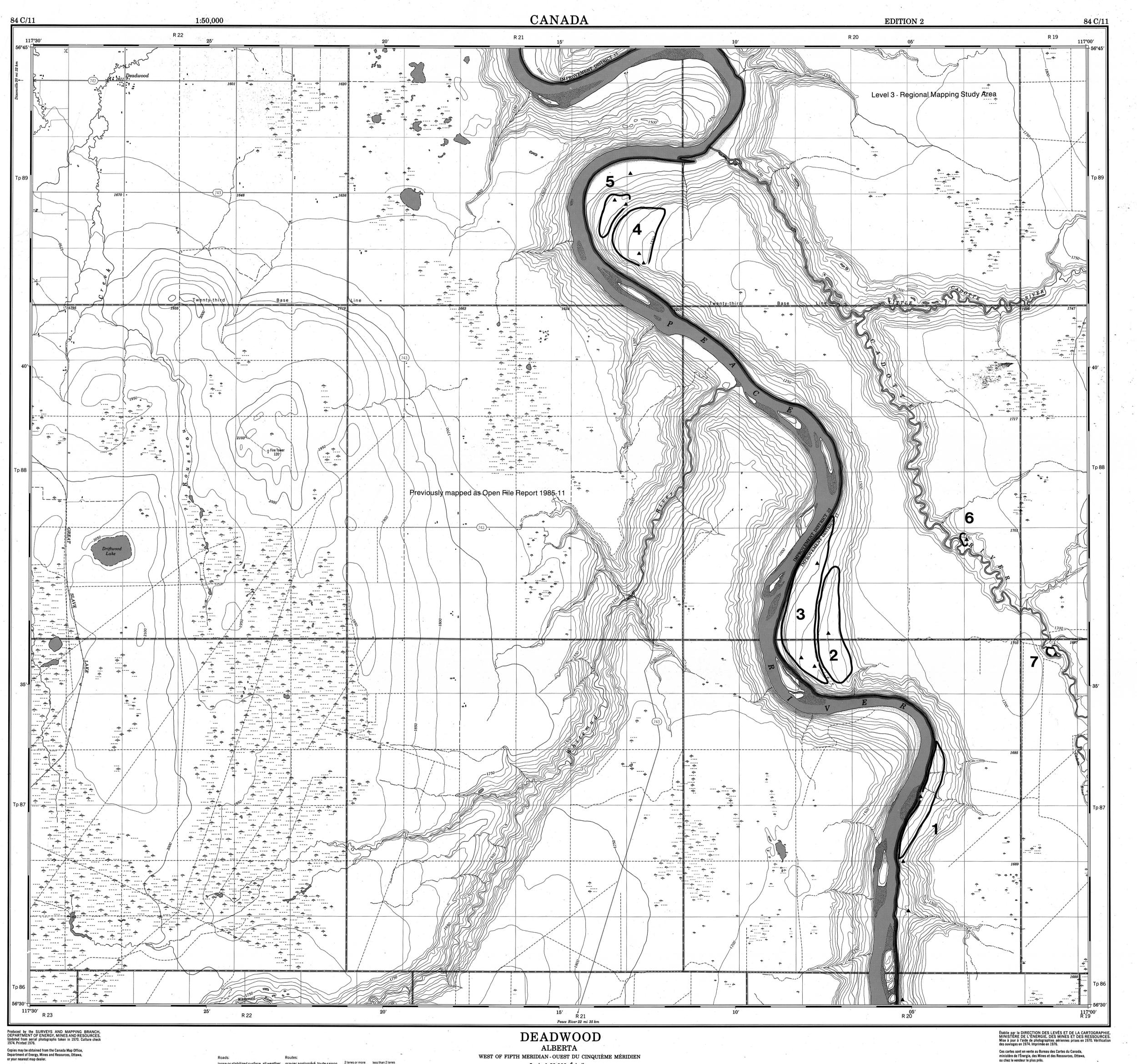
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Scale 1:50,000 Échelle

CONTOUR INTERVAL 50 FEET

Elevations in Feet above Mean Sea Level

North American Datum 1927

Transverse Mercator Projection

ÉQUIDISTANCE DES COURBES 50 PIEDS

Système de référence géodésique nord-américain, 1927

Projection transverse de Mercator

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

Miles 1

Metres 1000 0 1000 2000

loose or stabilized surface, all weather... gravier aggloméré, toute saison... 2 lanes or more 2 voies ou plus moins de 2 voies

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

loose surface, dry weather and de gravier, temps sec et

unclassified streets.....

GENERAL COMMENTS DEPOSIT CHARACTERIS

Deposit Number	Material Description	Reserves (1000 m³) Gravel Sand	Additional Comments		exture (%) Sand	Fines	(%) Wear	Overburden Thickness (m)	Deposit Thickness (m)	Deposit Area (ha)	Deposit Genesis	Additional Comments
LEV	EL 3 - Regiona	d Mapping S	Study Area	~ "					- H			
1	sand	360 910	iron stained, dirty, fine to medium grained	25	62	10	-	0.3	1	146	fluvial	1220' on helicopter altimeter
2	sand	242 1242	iron stained, fine to medium	15	77	3		0.15	0.75	215	fluvial	1400' on helicopter altimeter
3	gravelly sand	2254 3735	iron stained, fine to medium grained	35	58	2	,	0.15	2	322	fluvial	1300' on helicopter altimeter
4	gravelly sand	1056 2112	iron stained, fine to medium grained	30	60	5		0.15	2	176	fluvial	1500' on helicopter altimeter
5	sand	128 480	heavily iron stained, fine to coarse grained	20	75	2		0.15	1	64	fluvial	1160' on helicopter altimeter
6 7	sand sand		fine to medium grained fine grained					0.15-0.35	0.75 1	5 7	fluvial fluvial	gravelly sand lenses clasts primarily oversize
	•	1				(w II)			.,			
		F 100		,		ندر			,			
		*	(), · · · · · · · · · · · · · · · · · ·			(4)	-	4				•
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				2				,				
	9 m	- 8						^	81			

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 (m³) = area (ha) × thickness (m) × 10,000 × % gravel; the same formula was used for sand.

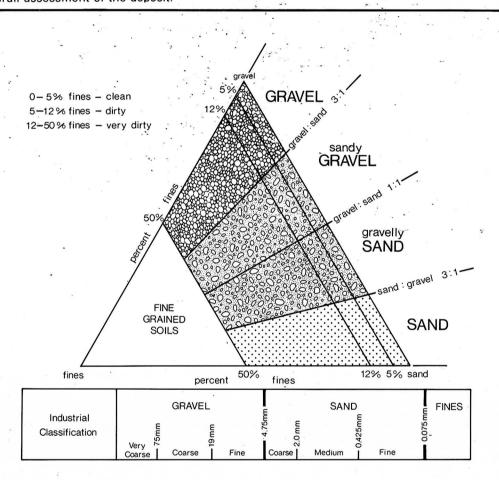
Texture — The texture of the sediment refers to the percentage of particles of various sizes. For mineral aggregate, the most important fractions are the gravel and sand. The actual dimensions of the clasts and particles in these fractions are given in the figure. The values given for a particular deposit 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.

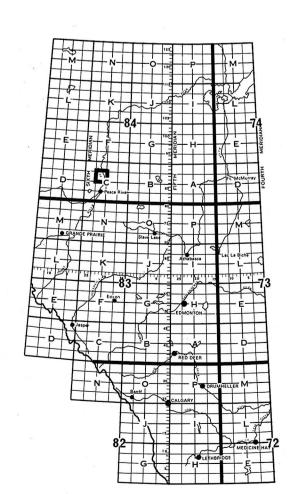
Wear — The resistance of gravel-size clasts to wear or abrasion can be measured in a laboratory test (ASTM-C131, Los Angeles Abrasion Testing). The amount of material that breaks down into smaller sizes is measured and related to the original sample weight in terms of percent wear. The higher the percentage 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 extrapolation from a limited number of known points (test hotes, pits, sections) and permits an overall assessment of the deposit.





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Man Legend

3 Deposit number

Assumed boundary from air photo interpretation

Active or inactive pit

★ Active or inactive pit▲ Sample and/or description site

Aggregate Resources

84C/11 Deadwood

D.W. Scafe, W.A.D. Edwards, D.R. Boisvert

Published 1989
Figure 8

This is a cond and gravel recovers man proposed by the Alberta Co.

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 Aggregate Inventory.

Cartography by Alberta Research Council, Graphic Services, J.K. Matthie.

