

**FEATURES LEGEND**

|                      |   |
|----------------------|---|
| Site investigated    | △   |
| Drillhole            | ○   |
| Deposit Type         |   |
| clean                | GRAVEL (red), sandy GRAVEL (orange), gravelly SAND (green), SAND (blue) |
| dirty/very dirty     | (light red), (light orange), (light green), (light blue)                |
| unknown              | (pink), (yellow), (light green), (light blue)                           |
| UNKNOWN deposit type | (grey)  |

**Deposit Type Definitions:**

GRAVEL deposit: contains greater than 75% gravel.  
 sandy GRAVEL deposit: contains 50% to 75% gravel.  
 gravelly SAND deposit: contains 25% to 50% gravel.  
 SAND deposit: contains less than 25% gravel.  
 UNKNOWN deposit: amount of gravel unknown.

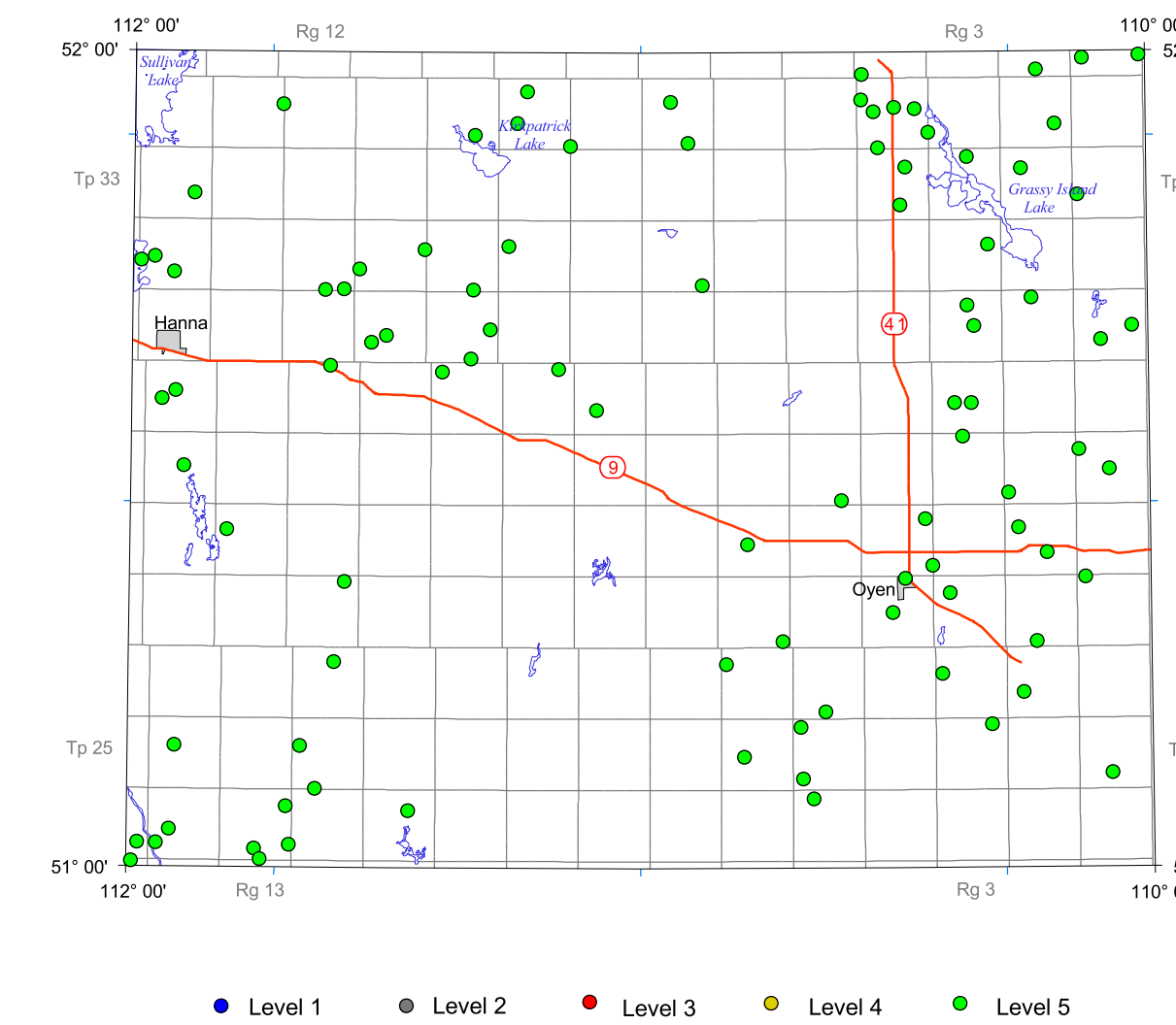
clean deposit: contains less than 3% silt and clay.  
 dirty deposit: contains 3% to 10% silt and clay.  
 very dirty deposit: contains greater than 10% silt and clay.  
 unknown: contains unknown percentage of mixed silt and clay.

**BASE MAP LEGEND**

|                                     |                               |
|-------------------------------------|-------------------------------|
| River and lake                      | (blue line)                   |
| River - intermittent                | (dashed blue line)            |
| Road - paved                        | (solid red line)              |
| Road - gravel                       | (dashed red line)             |
| Road - unpaved                      | (dotted red line)             |
| Railway line                        | (black line with cross-ticks) |
| Trail                               | (dotted black line)           |
| Park boundary - provincial/national | (green outline)               |
| City/town                           | (grey outline)                |
| Metis settlement                    | (purple outline)              |
| Native reserve                      | (pink outline)                |
| Township range - surveyed           | (dashed red line)             |
| Township range - unsurveyed         | (dotted red line)             |
| UTM, Zone 12 Grid                   | (+ 450000m.E)                 |

This is a common map legend. Not all units may be present on this map.

**Study Level**



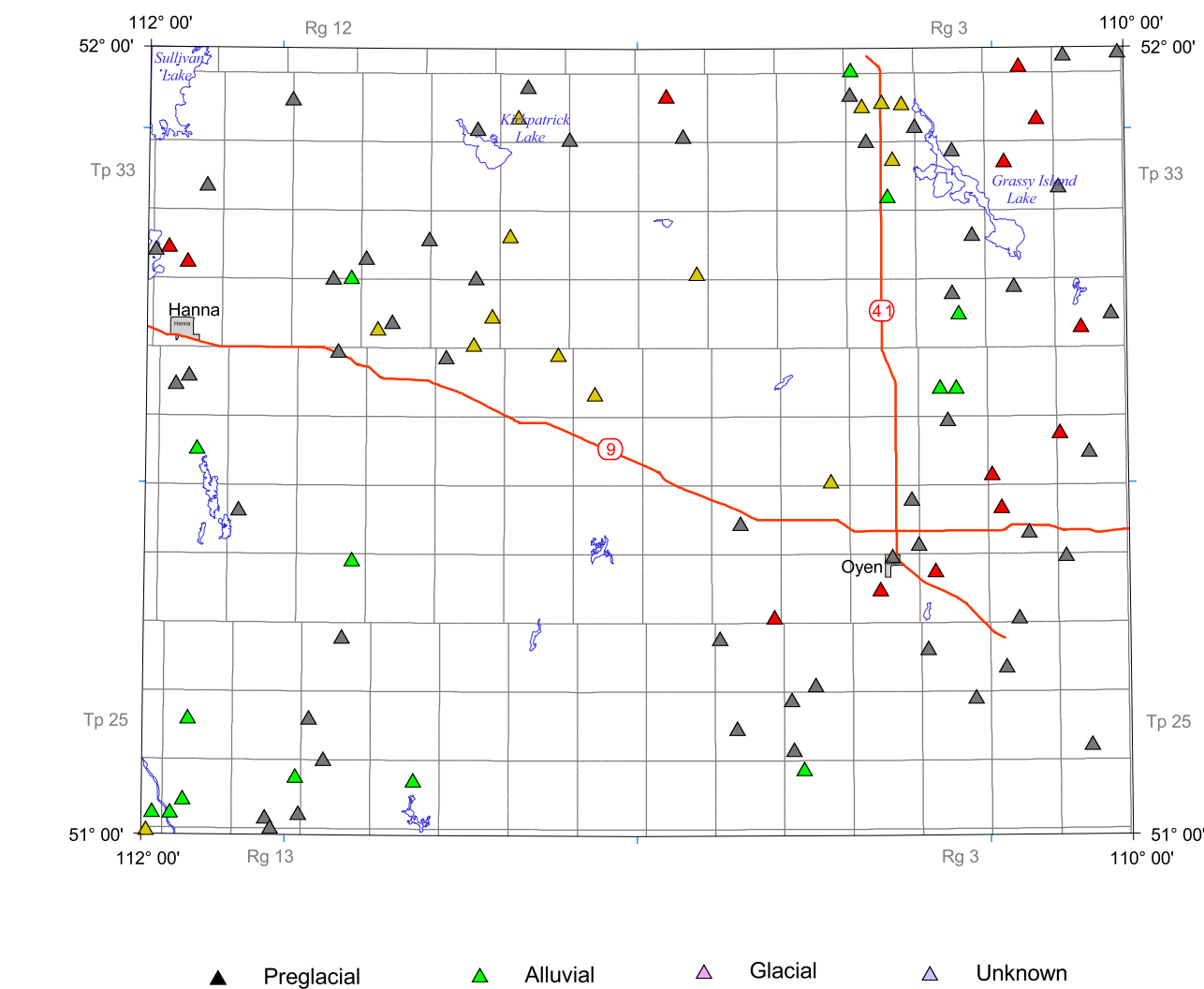
**Study Level Definitions:**

Level 1 Aggregate reserves confirmed by grid testing and sampling.  
 Level 2 Aggregate reserves confirmed by multiple test holes and sampling.  
 Level 3 Sand and/or gravel confirmed by Alberta Geological Survey site investigation and limited sampling and testing.  
 Level 4 Sand and/or gravel areas assumed by Alberta Geological Survey investigation of associated sites, remote sensing and other sources of information.  
 Level 5 Potential sand and/or gravel areas identified from remote sensing and other sources of information without Alberta Geological Survey site investigation.

**References:**

- Holter, M.E. (1975): Gravel resources of the Red Deer area; Alberta Research Council, Earth Sciences Report 1975-03, 54 p.
- Shetsen, I. (1987): Quaternary geology, southern Alberta; Alberta Research Council, Map 207, scale 1:500 000.
- Shetsen, I. (1991): Sand and gravel resources of the Calgary area, Alberta; Alberta Research Council, OFR 1981-08, 96 p.

**Genesis or Geological Feature**

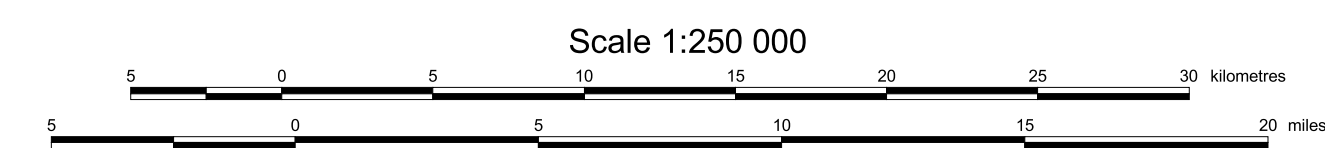


|                |            |           |           |
|----------------|------------|-----------|-----------|
| ▲ Preglacial   | ▲ Alluvial | ▲ Glacial | ▲ Unknown |
| ▲ Glacioluvial | ▲ Eolian   | ▲ Other   |           |

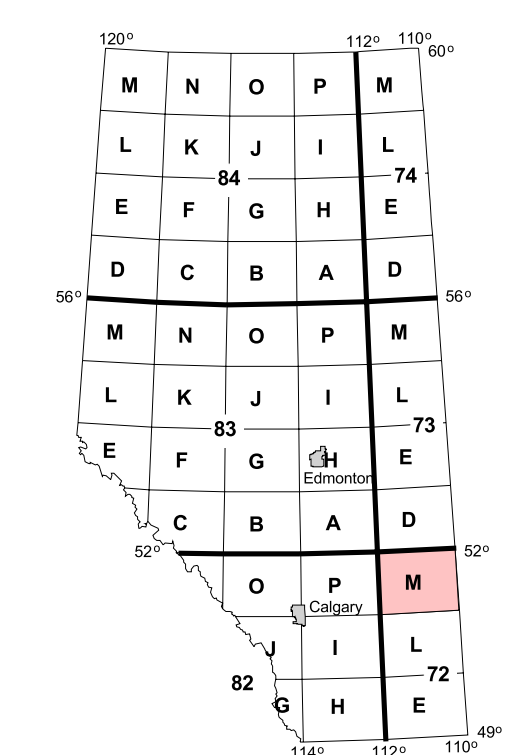
Published 2004  
 Copies of this map may be obtained from:  
 Information Sites  
 Alberta Geological Survey  
 Telephone: (780) 422-3767  
 Website: www.ags.gov.ab.ca

**Map 327**  
**Sand and Gravel Deposits with Aggregate Potential**  
**Oyen, Alberta (NTS 72M)**

Geology compiled by: W.A.D. Edwards and H.D. Budney



Projection: Universal Transverse Mercator, Zone 12  
 Datum: North American Datum, 1983



**Acknowledgement:**

GIS/Data Base/ Cartography by:  
 M.C. Price, D.K. Chao, B.E. Schmitzke (Livingstone Geological Services),  
 Z.A. Amer and N.L. Slundon

Digital base map provided by:  
 Spatial Data Warehouse

**Disclaimer:**

The Alberta Geological Survey and its employees and contractors make no warranty, guarantee or representation, express or implied, or assume any legal liability regarding the correctness, accuracy, completeness, or reliability of this publication. When using information from this publication in other publications or presentations, due acknowledgement should be given to the Alberta Energy and Utilities Board, Alberta Geological Survey.