



December 17, 2002

EnCana would like to report the results based on field testing a new road maintenance machine called the Road Badger.

The machine was tested under harsh oil field road conditions in the Pelican Lake area of Alberta, Canada during the summer of 2002. These roads were created by using product from "borrow pits" on top of muskeg and overlaid with 3" minus gravel hauled in .

The test results were based on five months of field testing and completion of over 115 kilometres of initial road maintenance work and re-work of completed initial road maintenance work.

EnCana was able to utilize a local First Nation's contractor – Eric Auger & Son's Contracting Ltd.– with operating facilities located on Traditional Lands in the immediate area.

Road Badger Inc supplied the Road Badger unit, contractor operator's training in use of the Road Badger, off site mechanical support and on-site technical support for the test period

The Road Badger unit, after overcoming initial break-in problems associated with extremely harsh road conditions, provided significant road maintenance cost savings as compared to regravelling the same sections of road. As a result of improved surface conditions, fewer equipment repair and maintenance costs were also realized.

Road conditions such as rutting, pot-holing, large rocks and washboard were greatly improved as a result of utilizing the Road Badger technology.

Travelling surface's were refurbished with materials (aggregates and fines reconstituted into spec gravel) recycled from the existing road bed.

Major cost savings have been achieved by using the Road Badger with the capital cost of the unit being repaid many, many times over within the five month test period. Substantial environmental savings (75%) of non-renewable resources (gravel) were also obtained.

Based upon this field trial, organizations and corporations having concern's re: road maintenance cost reduction, tax savings, environmental, health or safety issues should look closely at the Road Badger as a new tool to be utilized. EnCana plans to support the commercialization and use of the Road Badger within applicable operations.

A handwritten signature in blue ink that reads "Bob Markle".

Robert Markle C.E.T.  
Production Technologist  
EnCana Oil and Gas Co. Ltd.

# ROAD BADGER <sup>TM</sup>

## EnCana Quantities Survey Estimate of

### Environmental Credits

Re: Non-Renewable Resources

GGE (CO<sub>2</sub>e) Reduction

(Pelican Lake, Alberta)

Amount of road worked by Road Badger	117 kms /or 117,000 m
Average road width	4 m
Average gravel thickness required	0.15 m
Total estimated gravel required to resurface conventionally	70,200 m <sup>3</sup>
185 tonnes per 100 m <sup>3</sup> = 129870 tonnes	
*Total gravel savings using the Road Badger	<b>70,200 m<sup>3</sup></b>
Average load/gravel truck	13 m <sup>3</sup>
Total number of gravel truck loads	5,400
Average round trip/truck	7 hrs
Total hours	37,800 hrs
Average fuel/hr/truck	10 gallons
*Total fuel savings	378,000 gallons/or <b>1,430,730 litres</b>
Price per liter	\$0.50 to \$0.60
*Greenhouse Gas Emission Reduction @ 2.73 Kg CO <sub>2</sub> e per Litre of Diesel fuel = (Environment Canada Report April 2001)	<b>3,905,892 Kg</b>



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