

RESULTANTS

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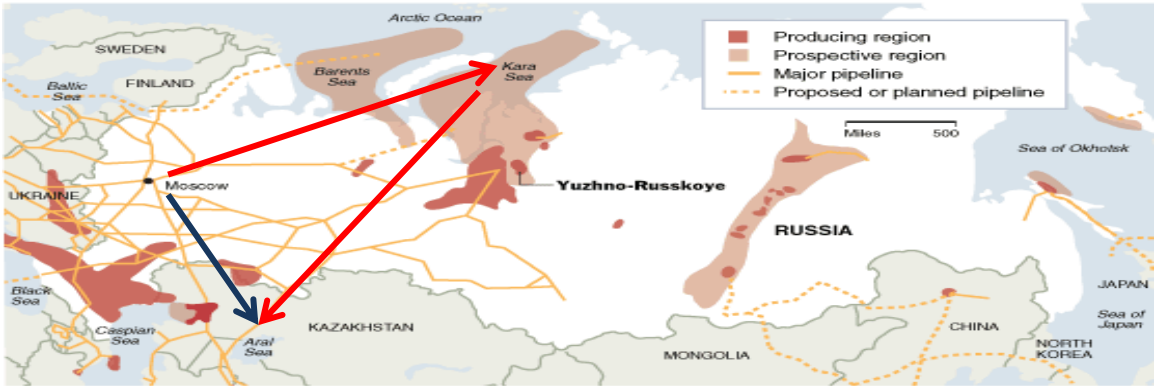
78701, jpcise@austincc.edu & New York Times May 11, 2008 by Andrew C Kramer

MARKET CAPITALIZATION *In billions*

Exxon Mobil	\$469
Gazprom	348
Petrobras	283
PetroChina	257
Royal Dutch Shell	253
BP	227
Chevron	201
Total	186
Eni	145
ConocoPhillips	137

Untapped Potential

Gazprom's extensive natural gas reserves may allow it to overtake Exxon Mobil as the world's largest energy company.



Sources: Bloomberg; Energy Information Administration

THE NEW YORK TIMES



Pool photograph by Dmitry Astakhov

Gazprom's chairman, Dmitri Medvedev (center), now Russia's president, celebrated the company's anniversary this year with the C.E.O. Alexei Miller, at his left, and the band Deep Purple.

Question: Find resultant displacement (Magnitude and direction) from Moscow to Aral sea if: Moscow to Kara Sea is 3000 miles 30 degrees N of East and Kara Sea to Aral sea is 5000 miles 40 degrees west of south?

Answer: 3989 miles at 61.8 degrees S of East.