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From Sept 8, 2005 Talk SPE Talk
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The World is Entering a Dangerous Period
Where Demand for Energy Will be a Driving Force
(For Good or Evil)

* Sept 8, 2005 SPE Talk
Monthly WTI Crude Futures from TD Ameritrade
Meeting the Challenge

Industry Outlook - Oil & Gas Supply

World-Wide Oil and Gas Production Growth

Historical Decline Without Investment

From Exxon Planning 1991

Existing Field Decline ~ 4 - 6%

Existing Production

MMBBL/D OE

200

160

120

80

40

0

'80 '85 '90 '95 '00 '05 '10 '15 '20
Other Reasons Supply Has not Kept Up

*** Volatility in Oil Prices and Uncertainty in Agreements with Host Countries

*** Wars in the Middle East
  *** Socialism Under Chavez

*** Pro Green Versus Pro Develop Policies
  *** Iranian Sanctions
  *** Red Tape

*** Saudi Decision to Limit Capacity
Ultimate Recovery 59-61% of OOIP

State of Alaska Department of Natural Resources.
"Dawn in the Desert Saudi High Tech Paying Off at Ghawar, September 2007 Energy Tribune by Nansen G. Saleri."
August 2011 Production 9.8 MMBBs
Other Areas Covered

***19 Years With Humble Exxon Affiliates

---Major U. S. Oil Fields, Venezuela and Canadian Tar Sands

*** 33 Years As Independent Consultant

---Reserve Studies, Property Sales, Oil and Gas Pricing Studies, Mineral Management for Large Mineral Owners, Audits for Royalty Owners and Expert Witness (Includes Recommendations for Changes in Texas Judicial System)

---Trips to Middle East, Former Soviet Union,(Tengiz) and Europe(North Sea)

---Warning of Hazards to America Due to Increasing Oil Imports

   Detail Review of all Sources of Energy tied Back to Ross Perot Energy Plan in 1992

*** Recommendations to Help Mitigate the Energy Malaise
Powers Petroleum Consultants

U.S. OIL IMPORT VULNERABILITY
The Technical Replacement Capability

Office of Technical Assessment

Mega Borg 1990
Houston Chronicle

The Burning Dollar

Kuwait Well Fires

Dec 1991
History and Forecast U. S. Crude Oil Deficit
Billions of Dollars

March 2011 Annual Deficit
$420 Billion

The World Wide Energy Dilemma, Where Next

Gulf Troops Enter Bahrain to Put Down Up-Rising, Including, Saudi Arabia, Qatar, and the UAE

Deep Water Since 2002 World Wide Represents 30% of Oil Discoveries

BP Horizon Fire
April 23, 2010

March 12, 2011 Picture of Large Blast at Fukushima-Daiichi Nuclear Power Plant after 8.9 Earth Quake Hits Region.

On this date it was undetermined if the nuclear core had melted down and released radiation.

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Dr. Colin Campbell - ASPO Ireland

BP Horizon Fire April 23, 2010

From National Geographic Channel
U. S. and European Governments Inability to Manage Debt Policy. Is the Next Direction Down Due to Worldwide Recession
A Big Part of "The World Energy Dilemma"