

The World Energy Dilemma by Louis W. Powers

<http://TheWorldEnergyDilemma.com>

*The future of energy prices and
availability.*

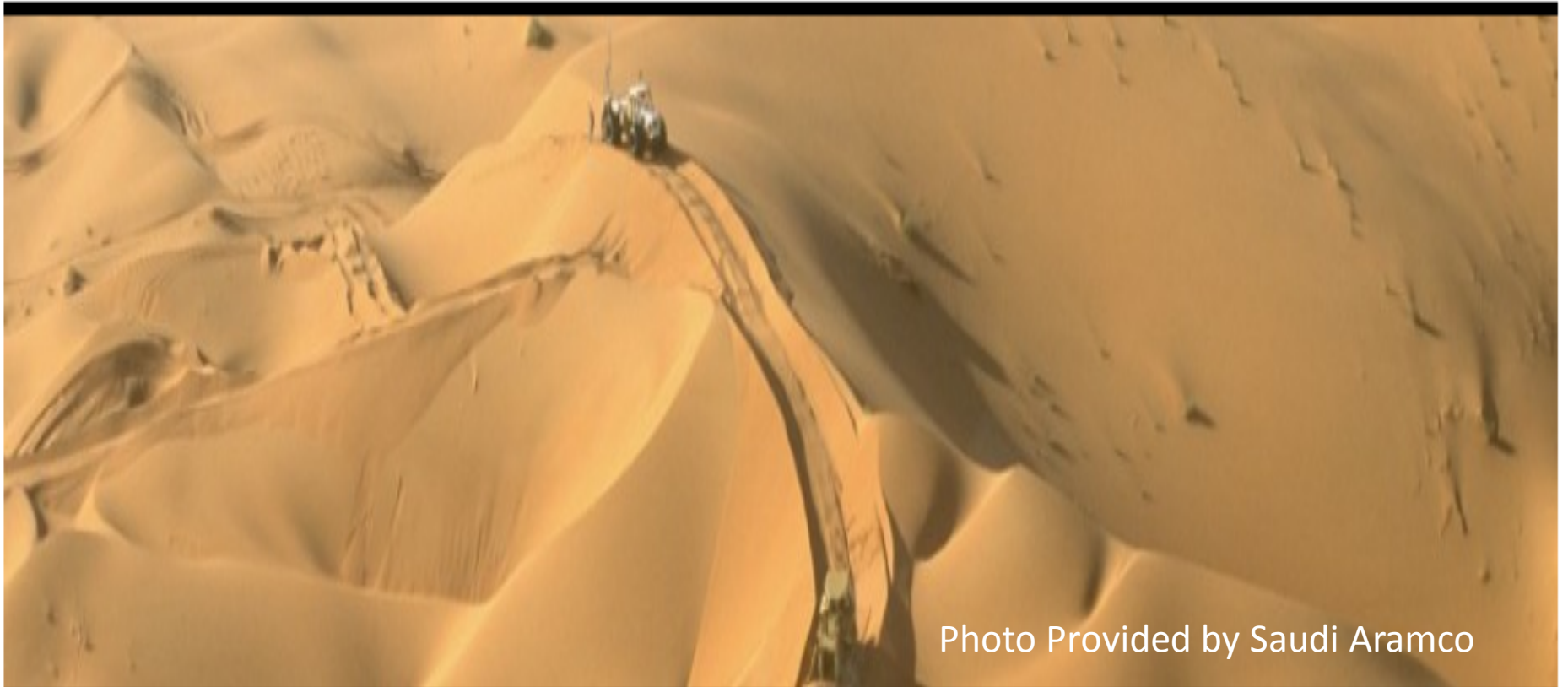


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******2011 Price of Oil From 2003 EIA Study
\$36 Per Barrel**

From Sept 8, 2005 Talk SPE Talk

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******2011 Price of Oil From 2003 EIA Study
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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

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Monthly WTI Crude Futures from TD Ameritrade



Meeting the Challenge

Industry Outlook - Oil & Gas Supply

MMBBL/D OE

200

World-Wide Oil and
Gas Production
Growth

160

ExxonMobil

120

Historical Decline
Without Investment

From Exxon Planning
1991

80

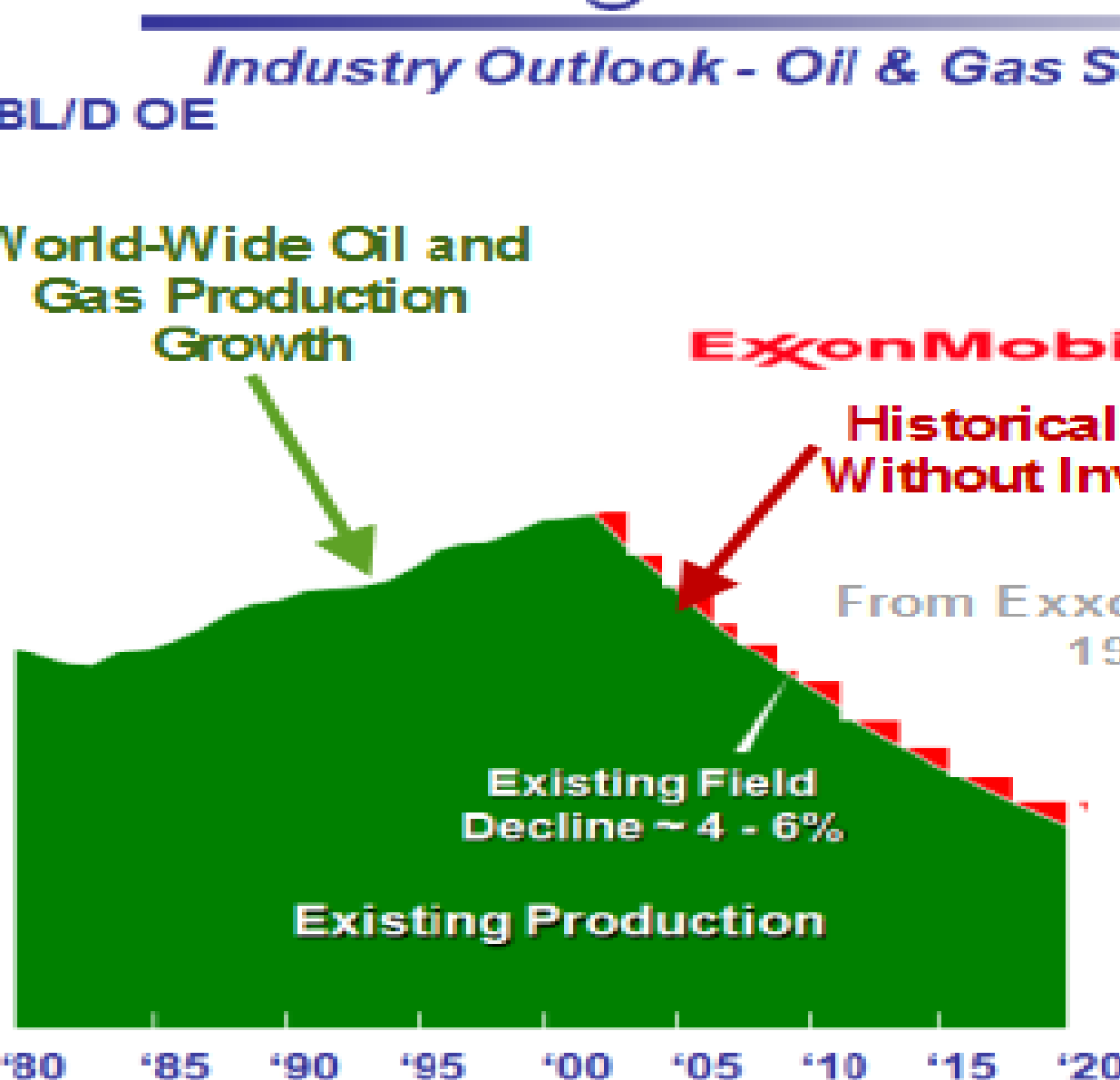
Existing Field
Decline ~ 4 - 6%

40

Existing Production

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

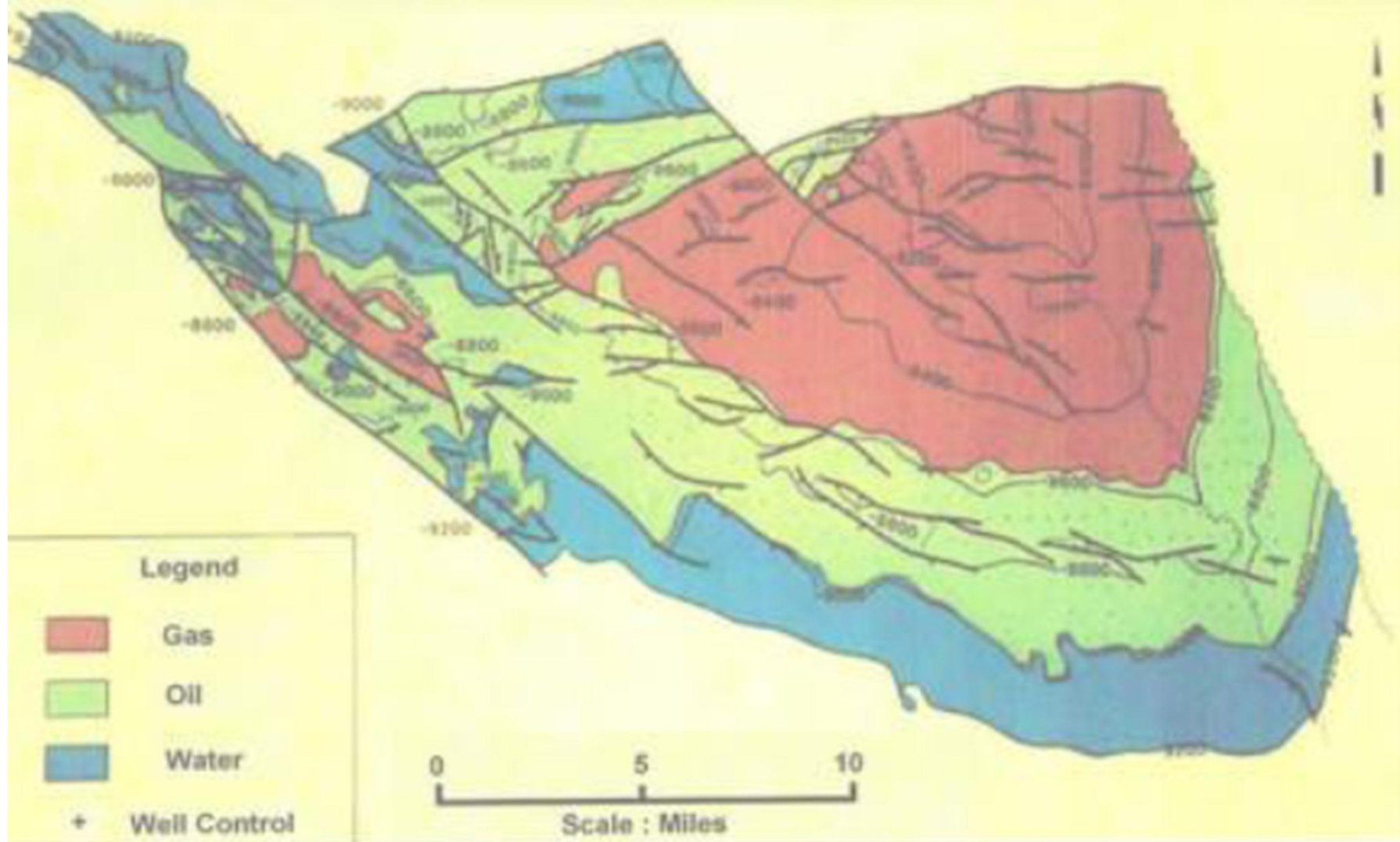
*** Red Tape

*** Saudi Decision to Limit Capacity



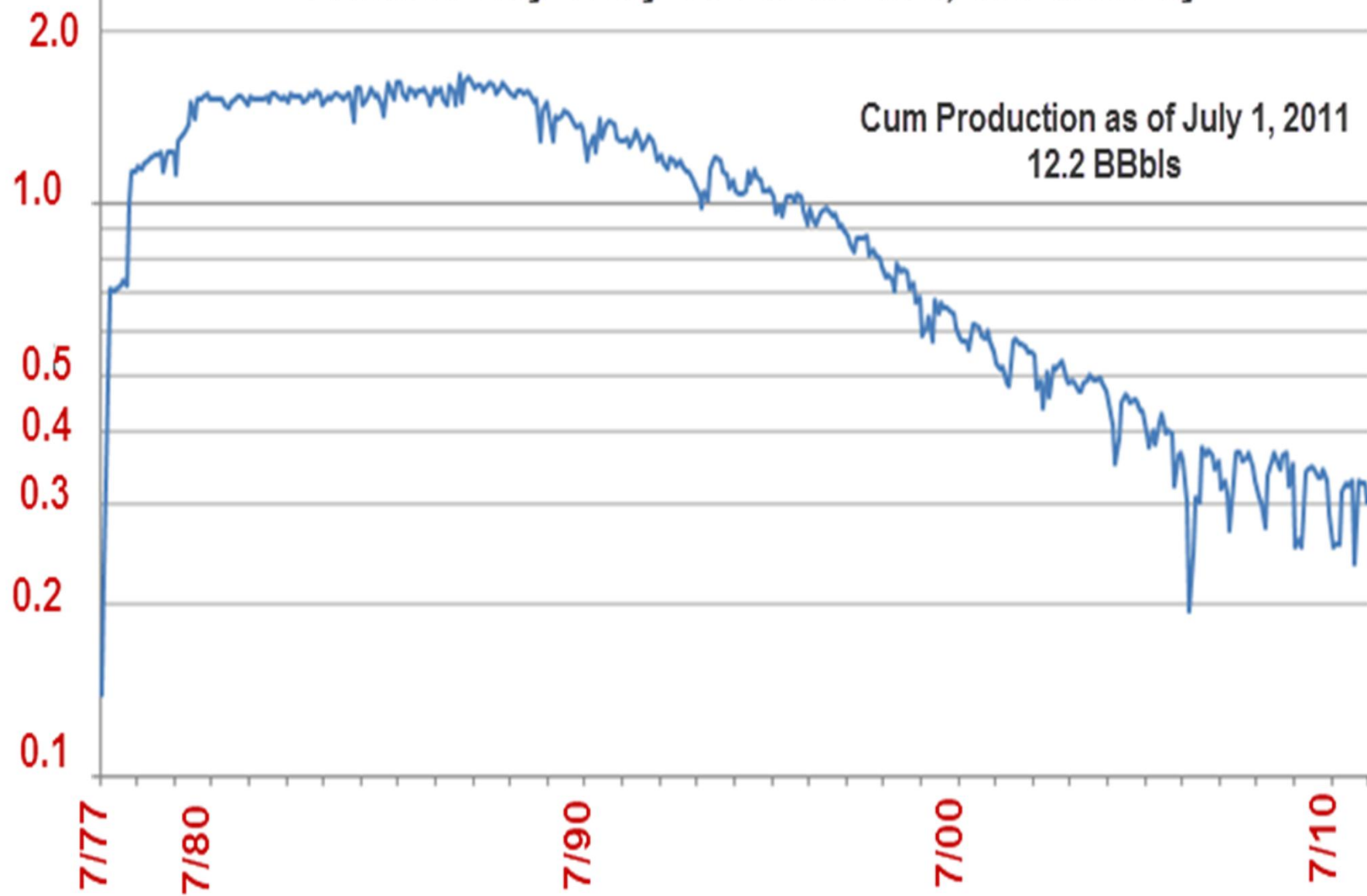
Ivishak Reservoir Structural Top

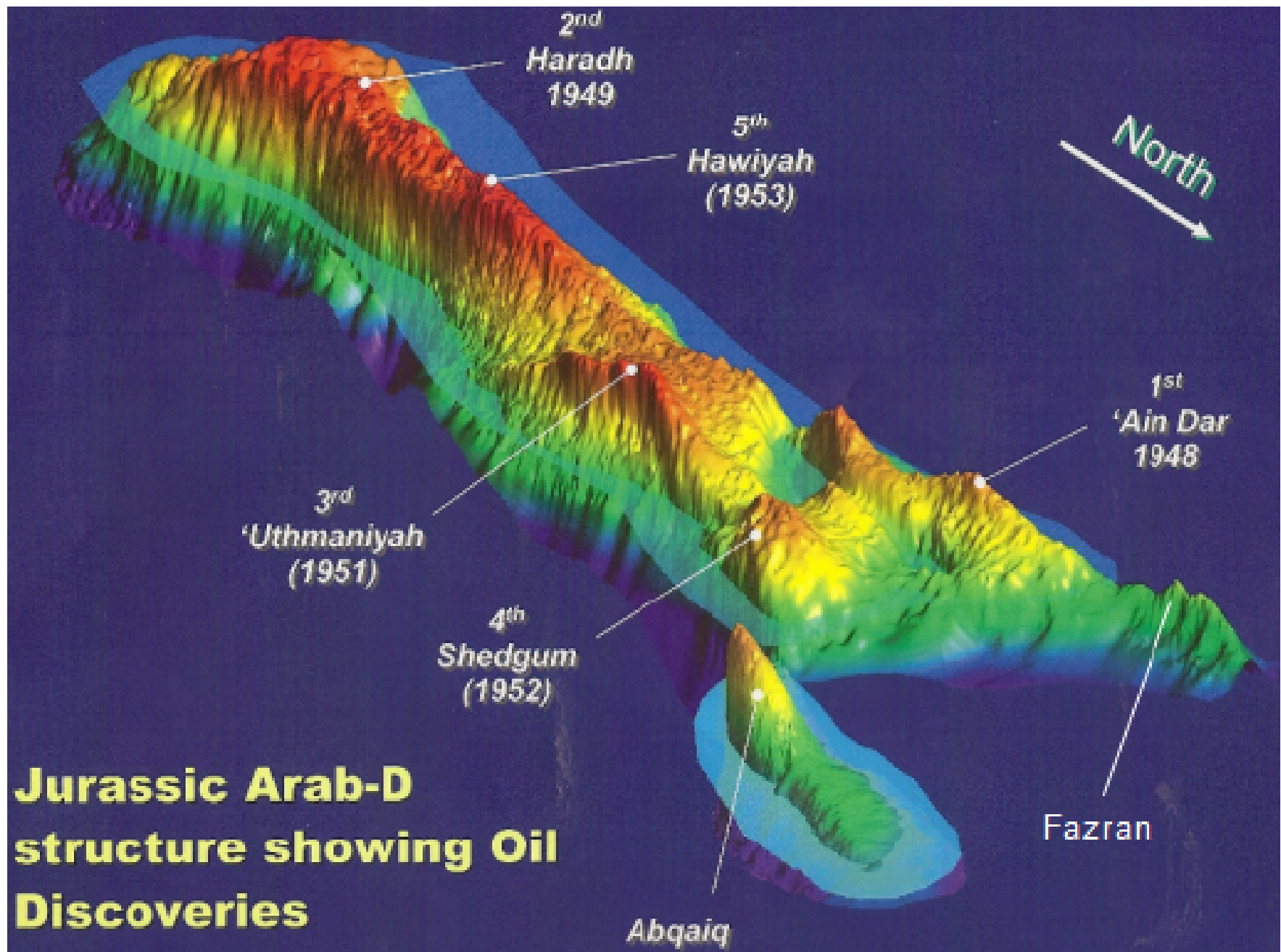
C | 200 Ft



"Overview of Water Saturation Determination for the Ivishak (Sadlerochit) Reservoir, Prudhoe Bay Field," SPE 28573, 1994 Annual Meeting, Holstein, E. D., and Warner, Jr., H. R., New Orleans, La.

Prudhoe Bay Daily Oil Production, MMBbbls/Day

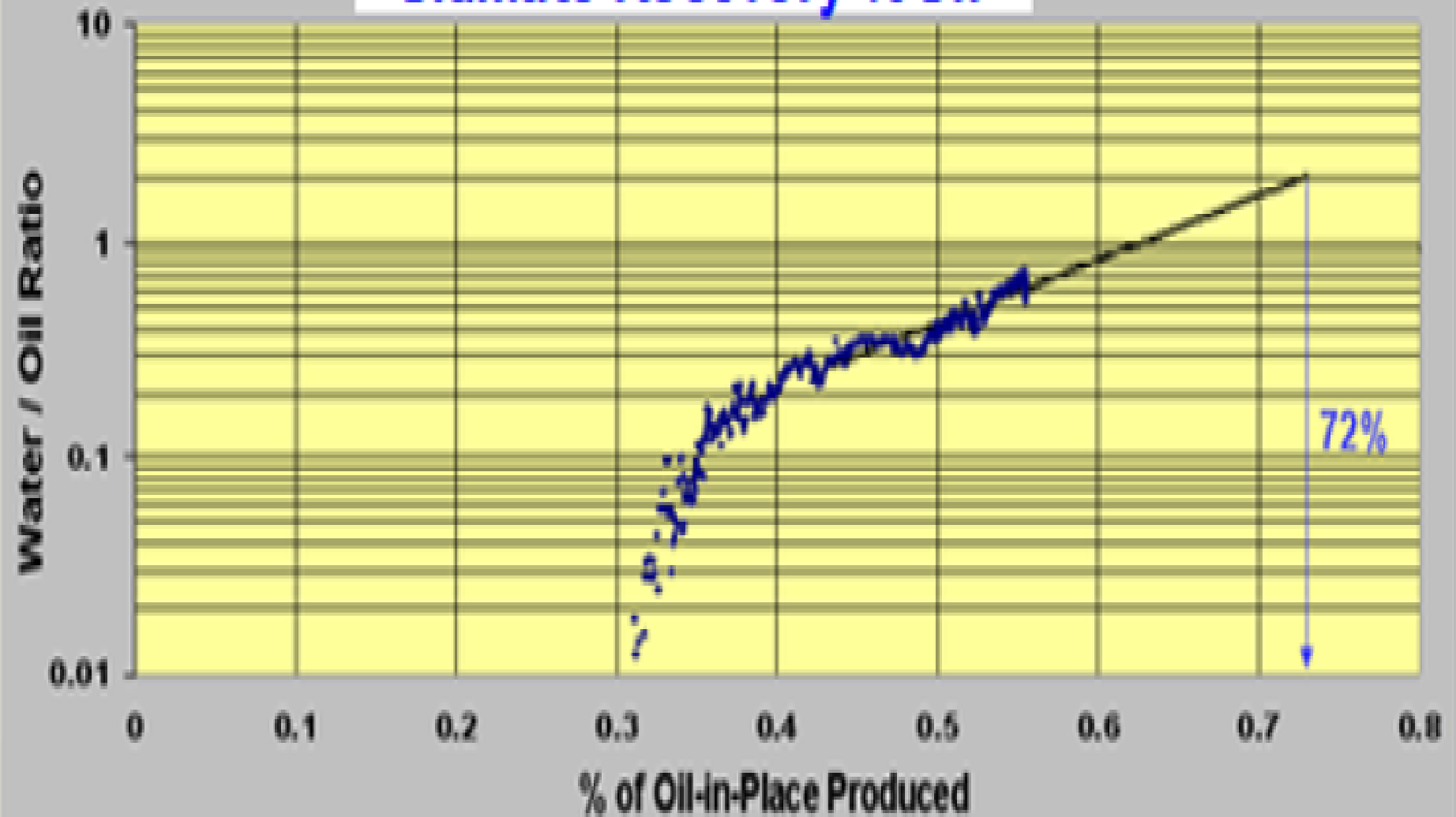




Ghawar: The Anatomy of the World's Largest Oil Field. Abdulkader M. Afifi Saudi Aramco, www.aapg.org/explorer/2005/01jan/ghawr.cfm

Ultimate Recovery %OIP

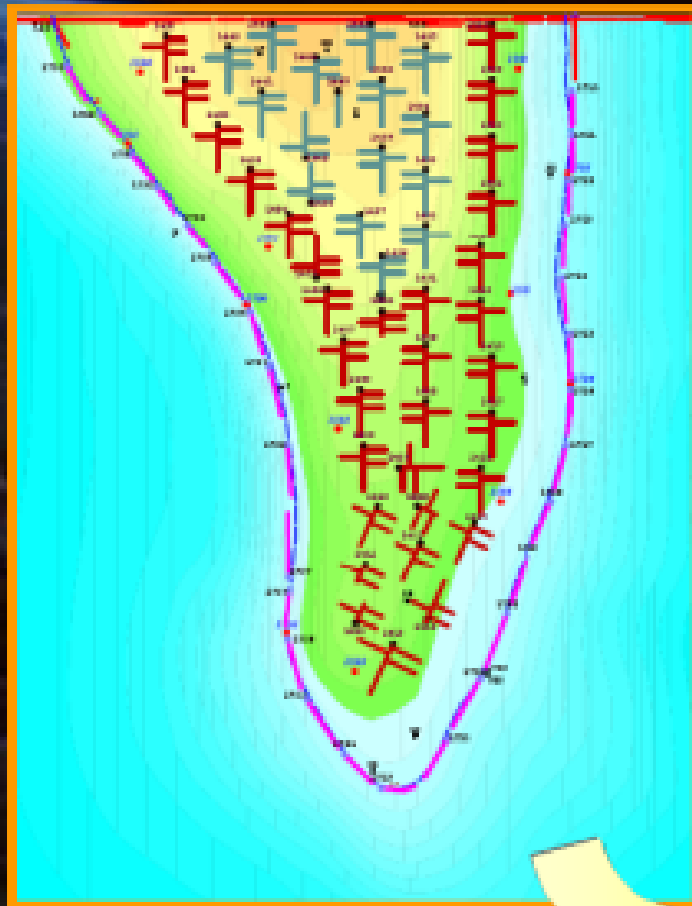
Abqaiq



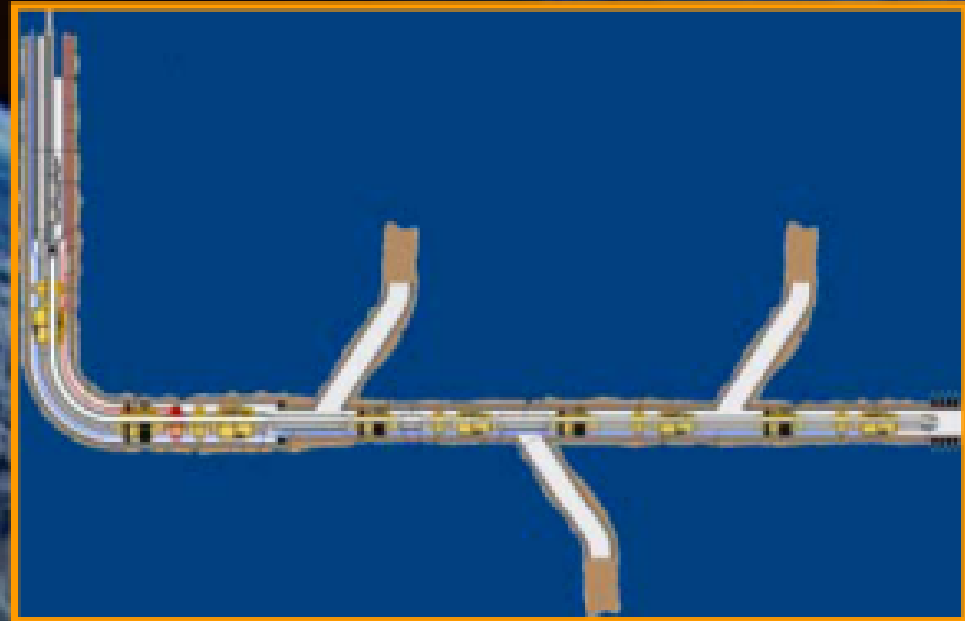
Saudi Aramco 2009

e-Field/Smart Wells

Haradh Increment III



Quad-Lateral Smart Completion



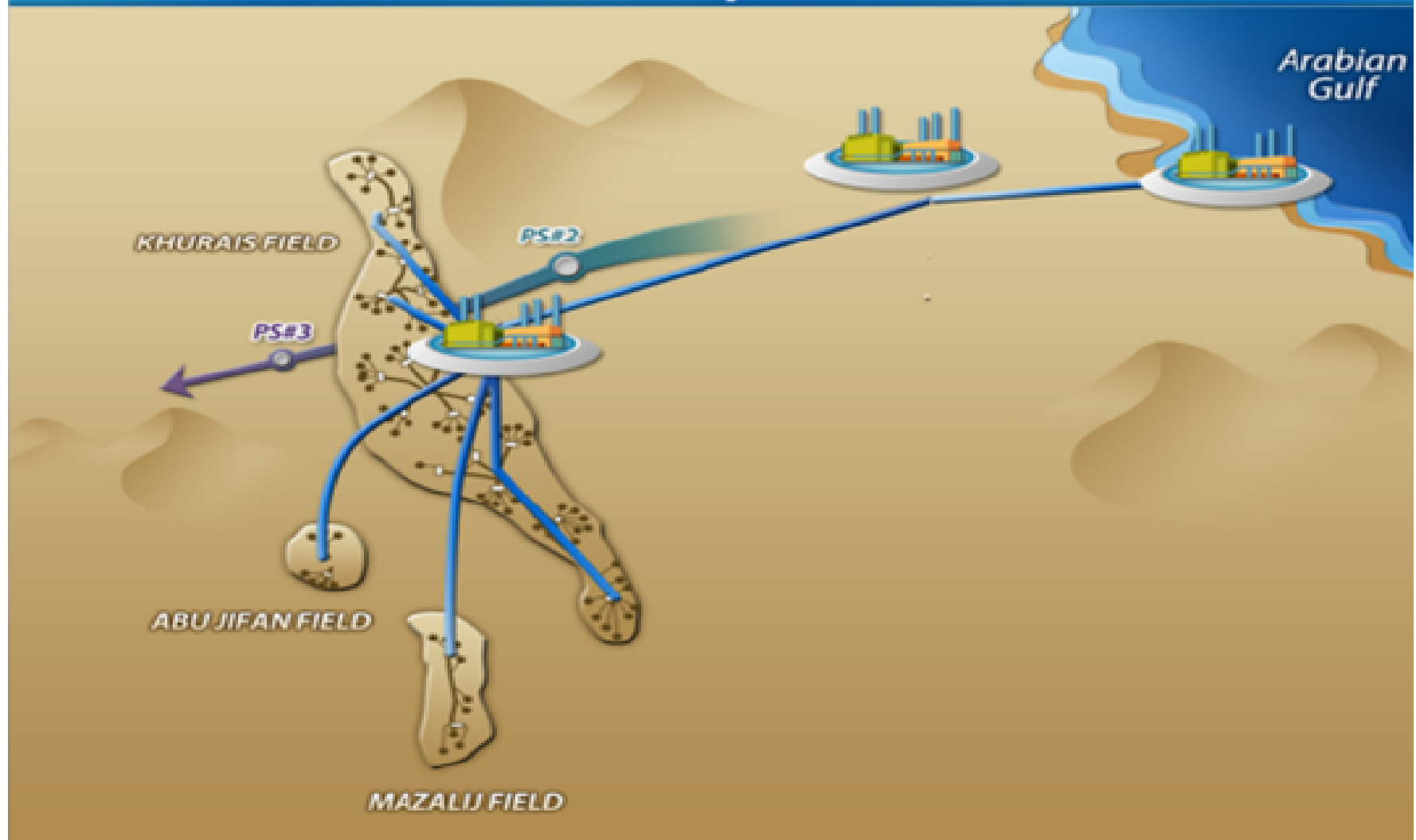
Onstream: July 2006
Rate: 300,000 B/D
Plateau: 30 Years
Depletion: 1.7% per Year

“Dawn in the Desert Saudi High Tech Paying Off at Ghawar, September 2007 Energy Tribune by Nansen G. Saleri.

Khurais Area Fields

Khurais 1200 MBCD AL Development

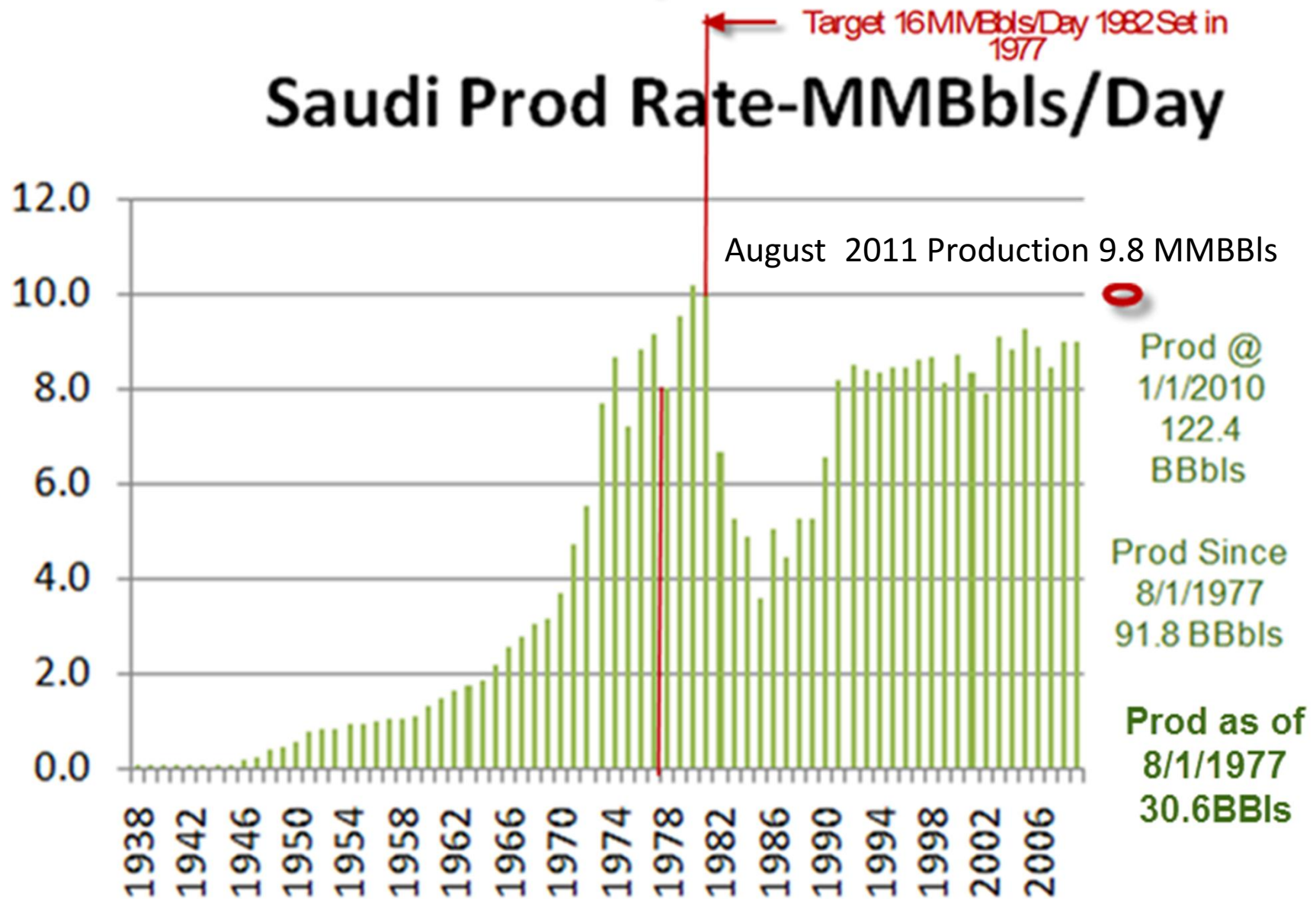
الهيئة العامة للغذاء والدواء
Saudi Aramco

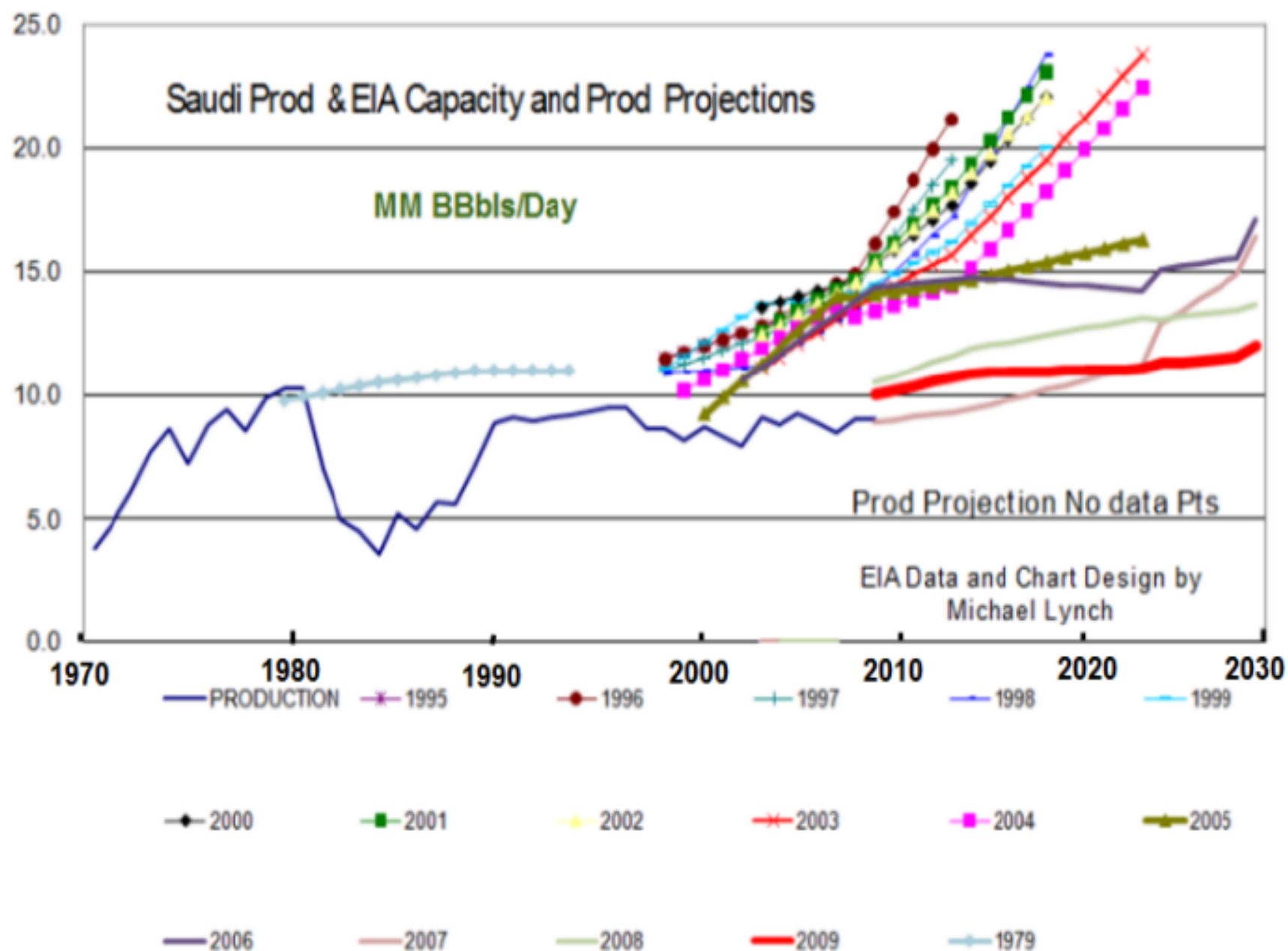


11/1/2010

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Saudi Prod Rate-MMBbbls/Day





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

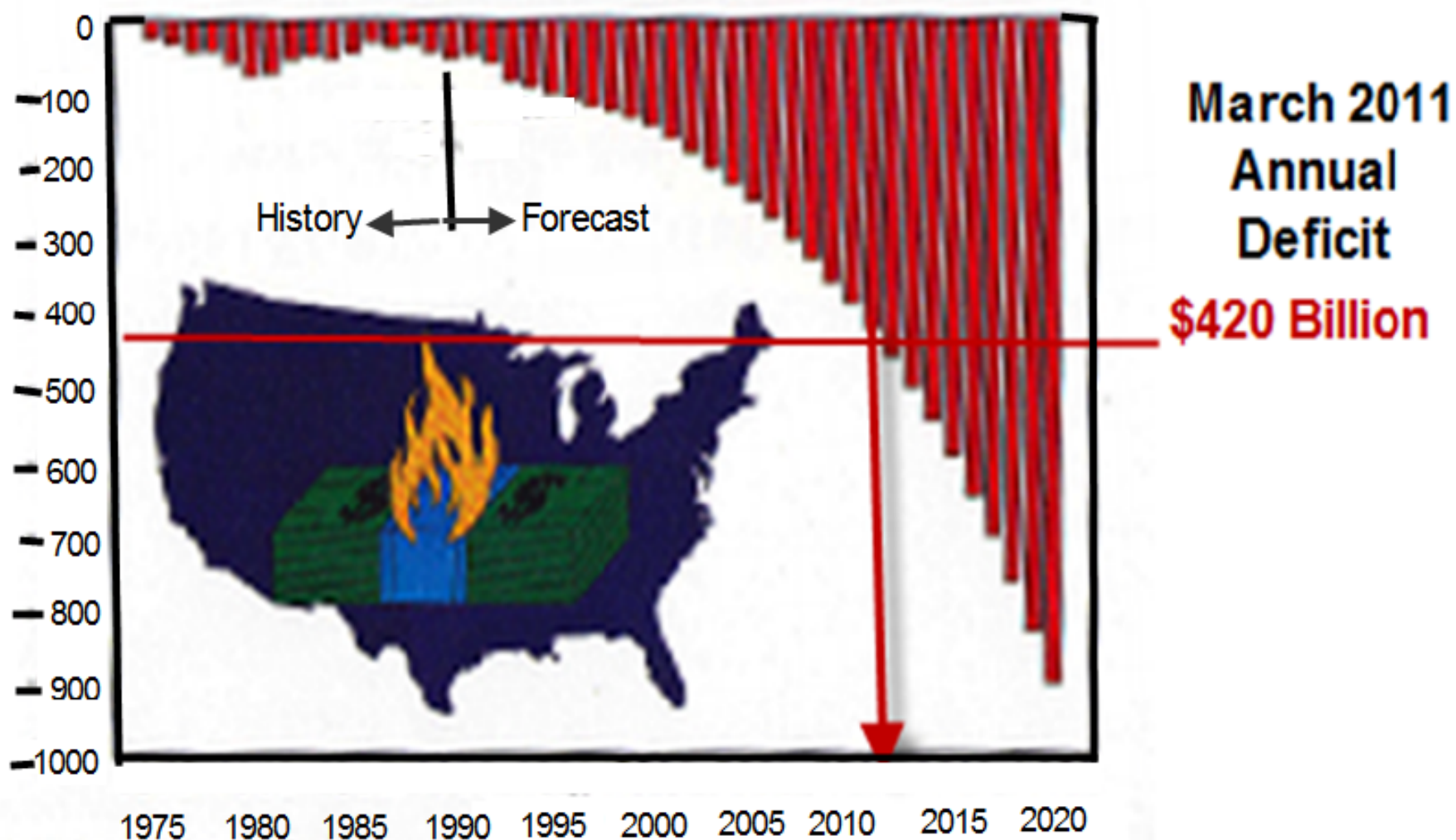


Kuwait Well Fires

Dec 1991

History and Forecast U. S. Crude Oil Deficit

Billions of Dollars



Powers Petroleum Consultants, Inc Dec 1991

The World Wide Energy Dilemma, Where Next



Energy & Capital November 3, 2010

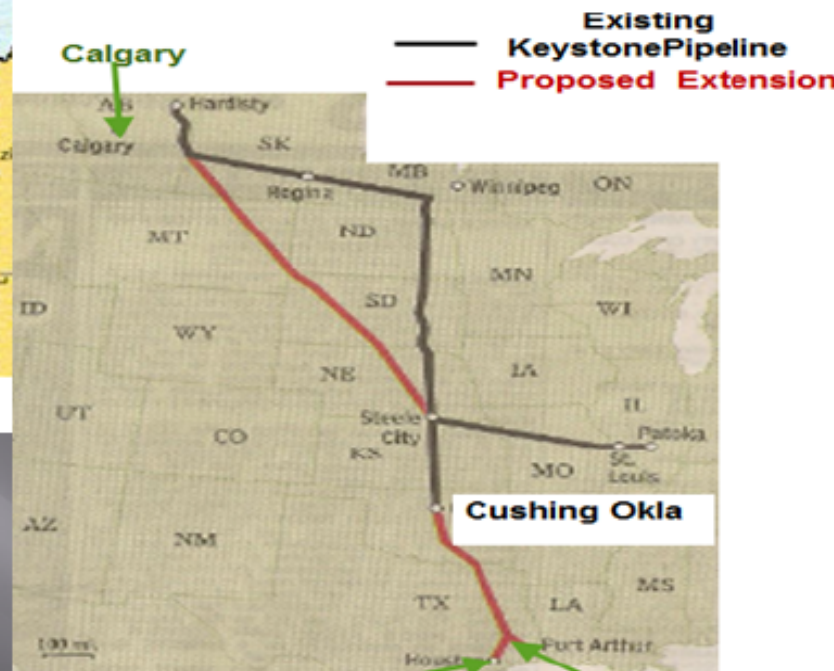


ANWR Off Limits



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

???????



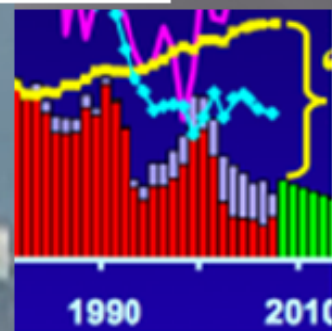
Houston

Port Arthur

Source: Trans Canada Chronicle

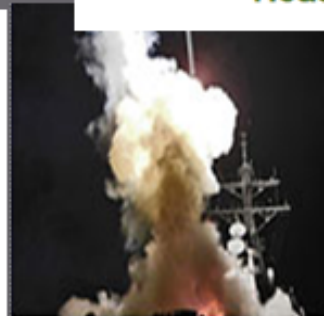


On this date it was undetermined if the nuclear core had melted down and released radiation.

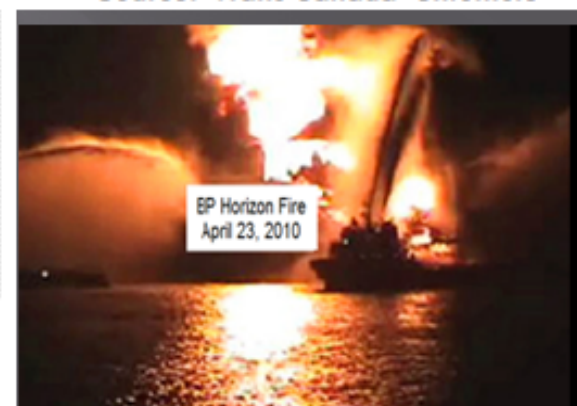


Deep Water Since 2002 World Wide Represents 30% of Oil Discoveries

Dr. Colin Campbell - ASPO Ireland



'Operation Odyssey Dawn' Begins

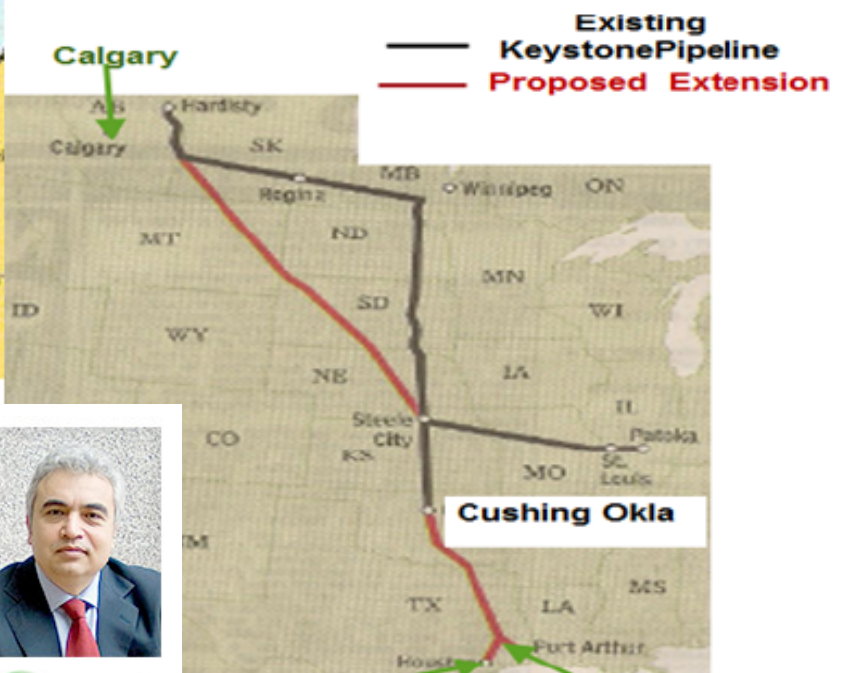


From National Geographic Channel

The World Wide Energy Dilemma, Where Next



Energy & Capital November 3, 2010



Houston Port Arthur
Source: Trans Canada Chronicle



Gulf Troops Enter Bahrain to Put Down Uprising
Including, Saudi Arabia, Qatar, and the

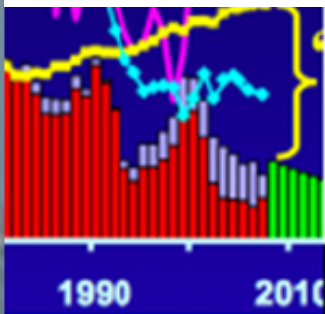


VS.



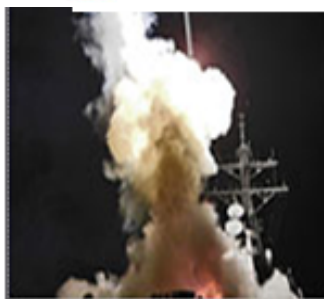
March 12, 2011 Picture of Large Blast at Fukushima-Daiichi Nuclear Power Plant after 8.9 Earth Quake Hits Region.

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



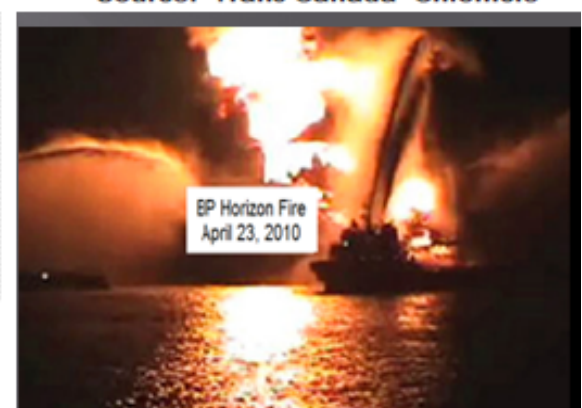
Deep Water Since 2002 World Wide Represents 30% of Oil Discoveries

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U.S. Navy / AFP / Getty Images

'Operation Odyssey Dawn' Begins



From National Geographic Channel



U. S. and European Governments Inability to Manage
Debt Policy. Is the Next Direction Down Due to World
Wide Recession

<http://TheWorldEnergyDilemma.com>

By Louis (Lou) Powers



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