

085A_Merging_Mind_and_Matter-Continuum

HRN
0 Fret

30 June 2000
Strum (note to pick)

- EDA C1. Merging mind and matter
(D) Seeing through the chatter
 To find oil and gas
- EDBA Gotta make our lifestyle last
- AGD 01. A geologist named Wallace Pratt
(G) Taught the oil industry that
 Oil and gas are first found
 In our mind before in the ground
- F#EB C2. Imagine if he had CoReExplorerSM
(E) The ultimate data InvestigatorSM
 Extending his mind digitally
 Experiencing immersive reality
- EDA C1. Merging mind and matter
(D) Seeing through the chatter
 To find oil and gas
- EDBA And help find it fast
- AGD 06.a. Patillo Higgins had a dream
(G) Captain Anthony F. Lucas bought into the scheme
 The Pittsburg wildcatter John Galey
 Took time from planning his ideal city
- F#EB 06.b. To take a stake and mark the spot
(E) Where the Texas oil boom would get hot
 In 1901 Spindletop pointed the way
 With 75 thousand barrels per day
- EDA C2. Imagine if he had CoReExplorerSM
(D) The ultimate data InvestigatorSM
 Extending his mind digitally
 Experiencing immersive reality
- AGD C1. Merging mind and matter
(G) Seeing through the chatter
 To find oil and gas
 And help find it fast
- EDBA Gotta make our lifestyle last E

085B_Merging_Mind_and_Matter-Exxon

HRN

0 Fret EDA (D)

30 June 2000

Strum (note to pick)

- C1. Merging mind and matter
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- 01. A geologist named Wallace Pratt
Taught the oil industry that
Oil and gas are first found
In our mind before in the ground

- C2. Imagine if he had CoReExplorerSM
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- C1. Merging mind and matter
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- 02. Out of Exxon came Lewis Weeks
Who in retirement still seeks
Approaching Sir Ian McLennan of BHP
A 2 1/2% royalty for the Bass Strait
Aeromag defining structural highs
Regional seismic refining the plays
Detailed seismic and drilling plans
Weeks Petroleum in many lands

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085C_Merging_Mind_and_Matter-Contractors

HRN

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Strum (note to pick)

- C1. Merging mind and matter
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- 03. Prakla introduced reflection seismology
In 1924 to supplement geology
Fifty years later found GSI
Had the biggest piece of contractor pie

- C2. Imagine if they had CoReExplorerSM
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- 04. Landmark Graphics changed the playing field
Improving what oil fields yield
Interactive 3-D interpretation
Seismic volume to surface reduction
Schlumberger got Prakla, Geco, and GeoQuestTM
Halliburton bought GSI and the rest
Two monstrous companies providing service
Making oil company exec's very nervous

- C2. CoReExplorerSM integrates
Allowing scientists to collaborate
LandmarkTM, GeoQuestTM, even 8-bit Magic EarthTM
A common canvas for idea birth

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085D_Merging_Mind_and_Matter-The_Early_Days

HRN

0 Fret EDA (D)

30 June 2000

Strum (note to pick)

- C1. Merging mind and matter
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05. Early oil entrepreneurial innovation
Started with the work of a Canadian
In 1854 Dr. Abraham Gesner
Got a U.S. Patent to manufacture
Kerosene, Greek for oil and wax
From asphalt, something new to tax
Then in 1859 Colonel E. L. Drake
Drilled into the Titusville oil lake
- C2. Imagine if they had CoReExplorerSM
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06. Patillo Higgins had a dream
Captain Anthony F. Lucas bought into the scheme
The Pittsburg wildcatter John Galey
Took time from planning his ideal city
To take a stake and mark the spot
Where the Texas oil boom would get hot
In 1901 Spindletop pointed the way
With 75 thousand barrels per day
- C2. Imagine if they had CoReExplorerSM
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085E_Merging_Mind_and_Matter-Texas

HRN

0 Fret EDA (D)

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Strum (note to pick)

- C1. Merging mind and matter
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07. In 1930 Columbus "Dad" Joiner
After drilling 3 years found a gusher
The 140 thousand acre East Texas Reservoir
Soon became H.L. Hunt's door
A flying start to a fortune immense
Then oversupply, falling prices dense
The Texas Railroad Commission
Set out to establish market proration
- C2. Imagine if they had CoReExplorerSM
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08. The Texas Railroad commission
Now provides industry regulation
Determining where and when to drill
Creating an intense political bill
Independents versus majors
Production allocation dangers
Control of invisible oil flow
A prototype for OPEC control
- C2. Imagine if they had CoReExplorerSM
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085F_Merging_Mind_and_Matter-Middle_East

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09. Everette DeGolyer discovered Portrero del Llano
Inaugurating the Mexican Golden Lane
In 1943 to the Persian Gulf he was sent
Defining 25 billion barrels, Saudi Arabia 20%
Iran, Iraq, Kuwait, Bahrain, and Qatar
Promised to control the oil ship's rudder
British subsidies fed King Ibn Saud
American oil men said the oil was not from God
- C2. Imagine if they had CoReExplorerSM
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10. Socal and Texaco owned Arabian oil
Britain laid claim to Iraq and Iran soil
King Saud met with Roosevelt and then Churchill
The US provided Lend Lease to meet Saudi bills
Mr. Five Percent Gulbenkian's Red Line Agreement
Was erased in 1948 by a Jersey and Socony payment
Aramco's American partners eventually Desert Storm
Gulf in Kuwait, Shell Oman, Conoco Dhabhi the norm
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085G_Merging_Mind_and_Matter-Canada

HRN

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- C1. Merging mind and matter
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- 11. Imperial Oil had perseverance
Drilling 133 dry holes with no interference
Over 14 years to find oil heaven
Leduc #1 was found in 1947
In 1948 given this analog clue
Atlantic Leduc #3 blew
Followed by Redwater and Golden Spike
The Swan Hill, Rainbow, and Brazeau reef plays alike

- C2. Imagine if they had CoReExplorerSM
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- 12. Elsworth, a stratigraphic trap
Downdip from water, no impermeable cap
Found in 1976 by Jim Gray and John Masters
65 by 30 miles Canadian Hunter's
Dietrich Welte ID'ed institute gas generation
Hydrocarbon transport mostly by diffusion
Bob Sneider said "I can hear the seagulls"
Reinterpreting pay as beaches not channels

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- C1. Merging mind and matter
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085H_Merging_Mind_and_Matter-Africa

HRN

0 Fret EDA (D)

30 June 2000

Strum (note to pick)

- C1. Merging mind and matter
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- 13. A Johnny Westmiller Tarzan movie
Portrayed oil explorers as less than groovy
Charles de Gaulle's effort to be oil self-sufficient
Tapped the French Empire to be efficient
An Algerian find in the Sahara Desert
Launched Elf and major industrial paydirt
The 1937 Shell BP joint venture
Found oil in 1956 at the Niger River

- C2. Imagine if they had CoReExplorerSM
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- 14. In 1957 eighty-four Libyan concessions
Picked up from lower production by the Russians
In Lybia Jersey Oil and Occidental
And Mobil in Nigeria gain from concession rental
When Chevron purchased Gulf Oil
There were significant reserves on Angolan soil
Discoveries today are in deep water
Where facilities often totter

- C2. Imagine if they had CoReExplorerSM
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- C1. Merging mind and matter
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085I_Merging_Mind_and_Matter-Alaska

HRN

0 Fret EDA (D)

30 June 2000

Strum (note to pick)

- C1. Merging mind and matter
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15. The discovery of coal oil saved from extinction the whales
Yet the Santa Barbara oil seep put the industry in jail
In response to the 1957 Suez oil transportation crisis
The British government and BP wanted a new oil oasis
Arco and Humble won two-thirds of Prudhoe Bay leases
The BP-Sinclair combination got the other main pieces
BP and Sinclair drilled six dry holes
Then the ARCO-Humble dry hole, financial doles
- C2. Imagine if they had CoReExplorerSM
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16. Arco's Robert O. Anderston understood 90% failure
One and one-half times larger than Dad Joiner
Prudhoe Bay State Number 1 well came in
The day after Christmas 1967, an elephant win
Over the next decade there was a lot of pain
The Arab embargo, environmentalists insane
Mukluks proved to be drilled 30 million years too late
The 800 mile pipeline worked, Valdez seemed to be fate
- C2. Imagine if they had CoReExplorerSM
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- C1. Merging mind and matter
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085J_Merging_Mind_and_Matter-Deep_Water

HRN

0 Fret EDA (D)

30 June 2000

Strum (note to pick)

- C1. Merging mind and matter
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- 17. Layoffs, acquisitions, and mergers
Retirements, economic purges
Transition from 65% of the DOW
In 3 years to less than 25% now
Smog, acid rain, global warming
Ozone depletion, "Is oil only harming?"
Compare to the CO2 from Portland cement
Or the price of a barrel of coffee and lament

- C2. Imagine if they had CoReExplorerSM
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- 18. Millions of employees replaced by technology
3D seismic, horizontal wells, stratigraphic geology
"All prospects look good until drilled"
Andararko's motto after their first sub salt field
Shell went from Cognac to Mensa, Auger, then Mars
Deepwater Campos, Angola, and others more than fuel cars
Imagine any human place without hydrocarbon derivatives
And see the economic drive to drill Andaman See reef cavities

- C2. Imagine when we have CoReExplorerSM
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- C1. Merging mind and matter
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085K_Merging_Mind_and_Matter-The_Future

HRN

0 Fret EDA (D)

30 June 2000

Strum (note to pick)

- C1. Merging mind and matter
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- 19. Now for the rest of the story
Hopefully it won't be too gory
Alastair Brown takes the long view
Saying "Let the data speak to you"
Intellectual capital, technology
Reorganization, globalization, taxonomy
Are rewriting industry courses

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- C1. Merging mind and matter
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- 20. We will capture rocks digitally
Integrating fluids and porosity
Simulating processes to optimize
Experiencing with more than just our eyes
Well plans, fields, and transportation
Moving to just-in-time production
Dynamic replenishment, abiotic sources
Unstoppable international economic forces

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