

Reuel, Nigel F [C B E]

From: [Redacted]
Sent: Tuesday, September 26, 2017 3:49 PM
To: Reuel, Nigel F [C B E]
Subject: Upstream Petro Memo

The project ideas that the Upstream Petro group has come up with are as follows:

± like the topic, but unsure where you will get data or model

We are to investigate the Rockies Express Pipeline to see if its system variables are maximized for efficiency. We would apply our knowledge of fluid mechanics to test a range of variables to find the optimal parameters for the transport of crude oil.

We are responsible for analyzing the safety risks and parameters of a reactor process. We will have allowed parameters and have to pinpoint when the reactor is has achieved conditions outside of the system specifications.

We are on the design team of the construction of a crude oil/natural gas pipeline from West Texas to Houston. We will have to design the path the pipeline will go to maximize efficiency while taking into account the land costs, topographical information, and other infrastructure needed to construct on our pipeline plan.

We are to maximize the efficiency of the recovery of crude oil. We will be have to manipulate the variables of extraction across a small range of extraction methods/conditions to see which one will have the highest yield of crude oil.

Thank you,

[Redacted]
Chemistry Dept. Teaching Assistant
Chemical Engineering

This could be cool. Measure length and height drops based on altitude data. Typically altitude data can be found for free.

Simulated or real? What type reactor? What process?

Again I like the topic but it is not specific where you will find your data or model.



of all your ideas this one is most specific and likely feasible to find data.

You could create a very USEFUL program that takes in altitude data and two points ... the program could then chart the best pipe path between two points.

you could also do something w/ flooding with such data ...

Would have liked a little more detail / specifics