

A review of exploration activity and results 2015-2017 on the NCS

Hans Martin Veding



Exploration activity follows the oil price



Drilling activity the last 3 years







From wells to Discoveries – what did we find?





From wells to Volumes – what did we find?





From wells to targets – what did we drill?



Reporting of data from operators



irectorate must receive both n digital format as an appendix the discovery evaluation

e petroleum activities ervoir well data





NPD

Reasons for dry targets in selected NPD plays in the North Sea





Reported drilling targets 2015-2017 – Pre drill





Discovery rates – prognosis vs result





Very concistent – and very optimistic





We have seen it before





Why are the volume prognoses so poor?

- Methodology?
 - The way we do post mortem analysis?
 - Current prospect evaluation methodology and tools?
 - The way we use our tools?
 - Too complex or too simple models?
- Different biases?
 - Are explorerers optimistic by nature?
 - Are we just fulfilling management expectations?
 - Company internal competition?

Some shortcomings with the current dataset



- How is success defined, in relation to the CoS? (above a minimum value or that the well will be classified as a discovery)
 - No data on the minimum value of the volume estimate
- Is the CoS adjusted according to well placement, i.e. is there a chance that the well misses an actual accumulation?
- No data on possible DHI adjustment of the CoS



Definition of sucess vs volume prognosis



Prospect 36/7 C3-E (Norsk Hydro, 2002)







Title: WELL 36/7-3 PL 153 FINAL WELL REPORT Classific.: INTERNAL E&P

No. : Rev. : 0 Page : 34 of 54 Date : 2002-07-29

On the basis of the currently available data, about 2 m of net pay are interpreted in the interval 2530 - 2545 m RKB (Rødby-Agat formations). The analysis also indicates hydrocarbons in the interval 2555 - 2570 m RKB and if real are likely to be residual hydrocarbons. Currently it is not clear in which phase (gas or oil) these hydrocarbons are present

Do we need a FIND2 on the NCS?

Evaluation of Well Results



FIND:

Evaluation of Well Results



- Forum for Exp
- 21 oil compar

FIND - Presentation No. 1

Background for the Project Prognosis vs. results:

Evaluation of V The industry in general:

- One of four pr
 overestimate resources
- 20 oil compar underestimate the probability of discovery

No apparent improvement with time

FIND - Presentation No. 1







The NPD proposes to form a forum to share learnings across the industry. This could be organized under the FORCE umbrella.

Topics that could be covered could be (but not limited to):

- Prospect volumetrics and risking
- Performance tracking and post well anlysis
- Case studies lessons learned
- Peer review processes



Questions?