

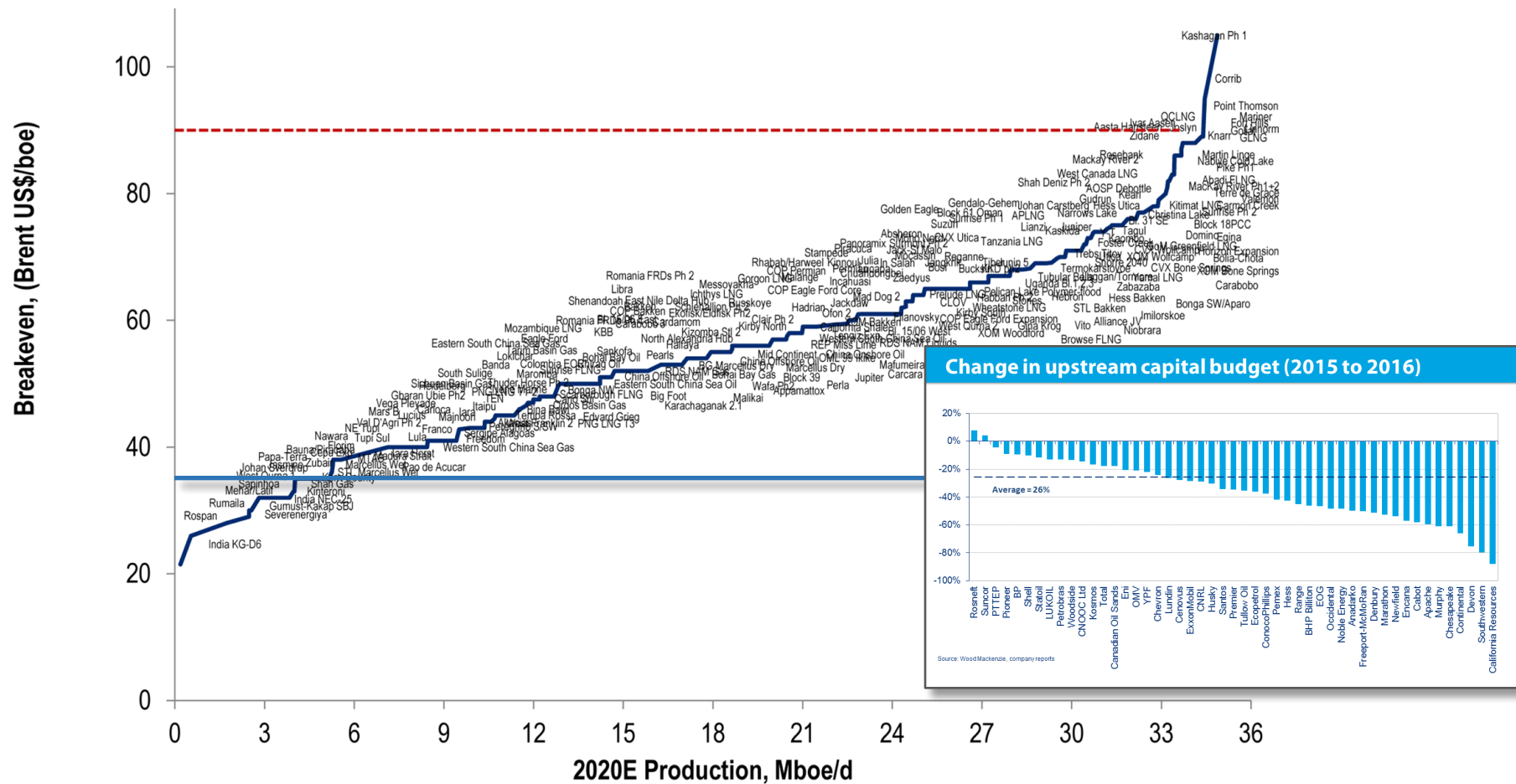
UmbiliDrill™ - A new method for drilling and developing marginal fields and remote reservoir pockets

Patents pending

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AARBAKKE INNOVATION AS – BRYNE - NORWAY



Background for the new methods



"What if it fails?" - "Never done that before..." - "Difficult"

What if it works

- What if it works?
- What if it works...
- What if it works!!!



What if it works!

United States
Patent Application Publication
 (12) Pub. No.: US 2008/0202768 A1
 (43) Pub. Date: Aug. 28, 2008

(54) DEVICE FOR SELECTIVE MOVEMENT OF WELL TOOLS AND ALSO A METHOD OF USING SAME.

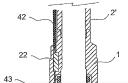
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 (22) PCT Filed: May 18, 2006
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 371 (c)(1), (2), (4) Date: Nov. 26, 2007

(51) Int. Cl. E21B 23/00 (2006.01)
 (52) U.S. Cl. 166/381; 166/382
 (57) ABSTRACT

The present invention relates to a device for the selective movement of a well tool (20, 20', 40) in or through at least one portion of a pipe string (2) used at least one portion of the string (2) being provided with a plurality of electromagnets (3) which are arranged to produce a magnetic field in the vicinity of the well tool (20, 20', 40) within and at one portion of the pipe string (2) by means of magnetic induction on said well tool (20, 20', 40). The invention relates to a method for practicing the invention.



Zilift's revolutionary artificial lift technology successfully completes first operational field trial

14.02.2014

Zilift Ltd, innovators of artificial lift solutions, announced a breakthrough for the oil and gas industry, as the firm's revolutionary TorqueDrive™ technology delivers a successful first operational field trial in the U.S.

After extensive examination of the industry, the ground-breaking TorqueDrive™ technology began development three years ago at Zilift's Aberdeen, Scotland headquarters before TorqueDrive™ was deployed for field trials in Bakersfield, California during 2013.

TorqueDrive™ has now exceeded initial field trial targets, having exceeded 150 days running and counting; an industry first and looks set to transform heavy oil artificial lift operations globally.

This is the first known practical demonstration of a magnetic torque converter in a double-rod end-onset.



United States Patent
Hansen et al.

(12) Pub. No.: US 2008/0202768 A1
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(54) INTERVENTION ROD

(75) Inventors: **Hanssen Hansen, Dakota Alcantara (US); Mahmood Farhatpourpour, Shamsan (US); Richard Julian Khali, London**

(51) Int. Cl. E21B 23/00 (2006.01)
 (52) U.S. Cl. 166/381; 166/382
 (57) ABSTRACT

Zielbeil AS has reached an agreement with ConocoPhillips to provide distributed fiber optic (DFO) intervention services in the continental United States. Zielbeil will offer its DFO intervention services beginning in the first quarter of 2015 from its base in Houston, Texas.

Zielbeil will employ a purpose-built, trailer-mounted Z-System®, which uses fiber optic composite rod technology to access and visualize wellbores in real-time. During the campaign, Zielbeil will work closely with ConocoPhillips on a series of wells, focusing primarily on horizontal wells in its unconventional plays.




eZiLift slim-line retrofit ESP for any existing oil well

- Unique high speed rotary PMM technology
- Increase production uptime with fast, rig-less deployment & retrieval;
- No need for expensive workover rig;
- Capacity: 1,000 BPD from 5,000+ ft fitting within 3 1/2" tubing;

What if it works!

MCE Deepwater Development 2016



(12) **PATENT**

(19) NO (11) **315952** (13) B1

(51) Int Cl⁷ E 21 B 7/124

Patentstyret

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(41) Åltn. tilg.	2002.08.29	(30) Prioritet	Ingen
(45) Modell dato	2003.11.17		


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Jone Salte, Soyland, 4365 Narbo, NO
Søkerne Ingen

(72) Oppfinner Ingen

(74) Fullmektig Ingen

(54) Benevnelse **Undervanns boremodul til bruk ved boring av olje- og gassbrønner**

(56) Anførte publikasjoner SESSION 5-1 "THE SUBSEA DRILLING TECHNOLOGY FOR EXPLORATION & PRODUCTION IN DEEP OCEANS", DEEP OFFSHORE



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innovative autonomous robotic drilling rig for unmanned land and deepwater drilling operations

About RDS

Robotic Drilling Systems

Robotic Drilling Systems AS (RDS) develops a game changing drill-floor solution consisting of robotic technology for fully unmanned drill floor operations. The system handles pipe and tools and the technology can be applied both on pipe-deck and drill-floor on all drilling structures (new builds and retrofit) for both land and offshore installations.

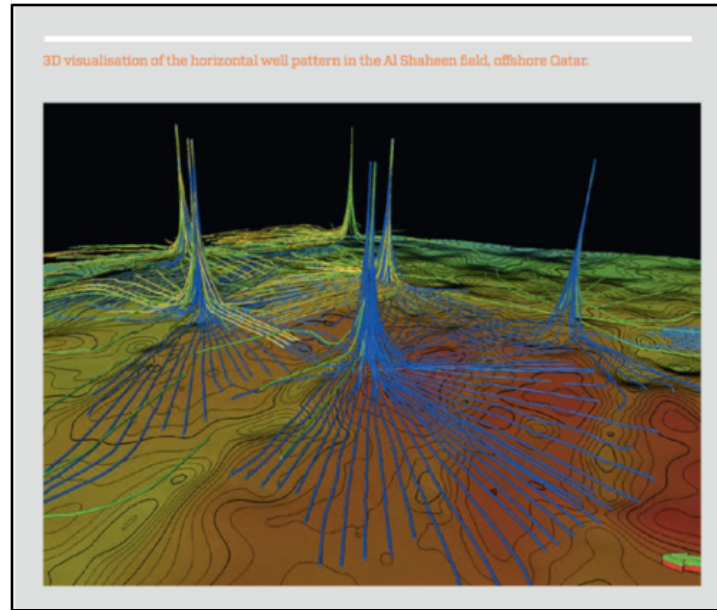
News

Odjell Drilling becomes a major shareholder in in Robotic Drilling Systems AS (RDS).

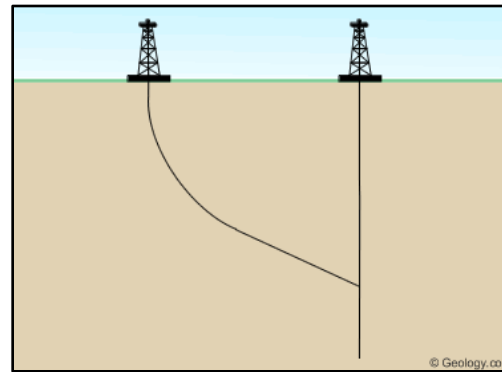
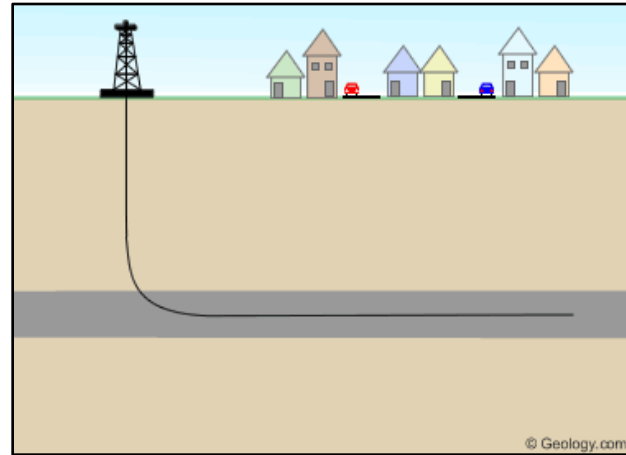
Through an agreement with existing RDS shareholders Odjell Drilling will participate in a new share issue of 50 MNOK



How far can we drill a wellbore?

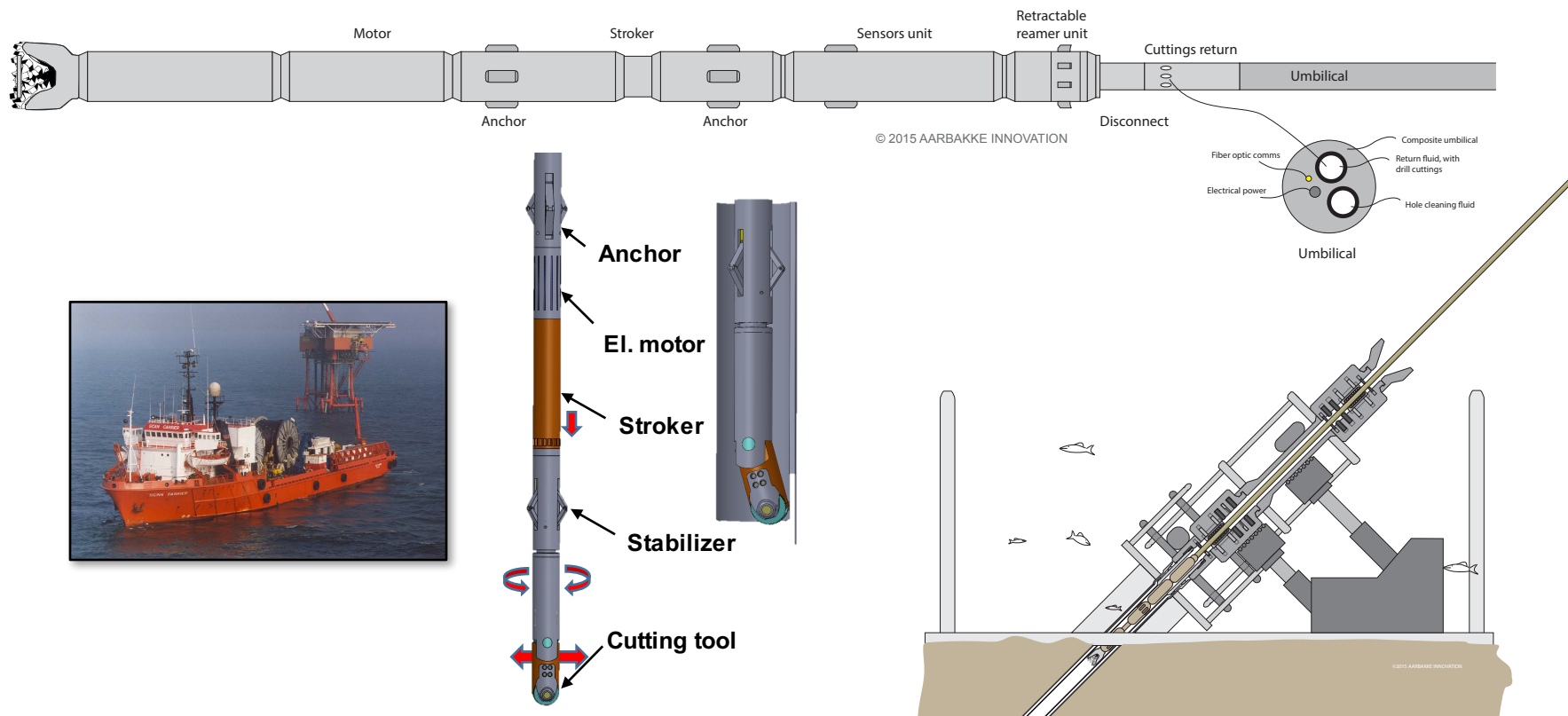


Source: <http://blog.maerskoil.com/>



UMBILIDRILL™ - THE WELLBORE SYSTEM

The “UmbiliDrill” System

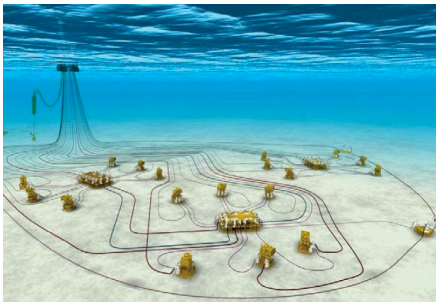




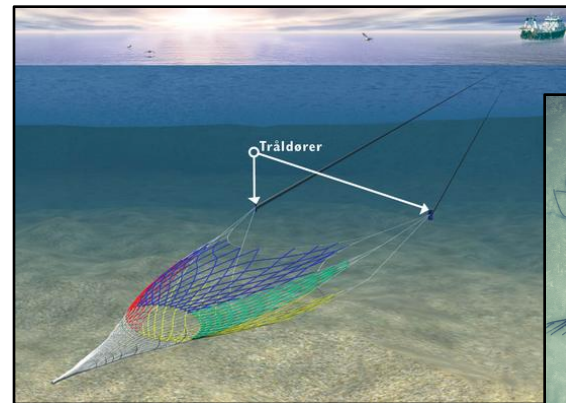
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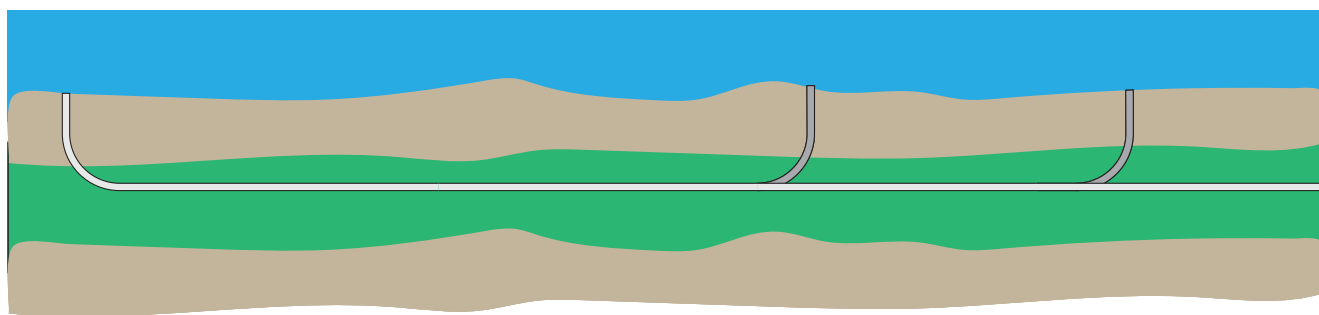
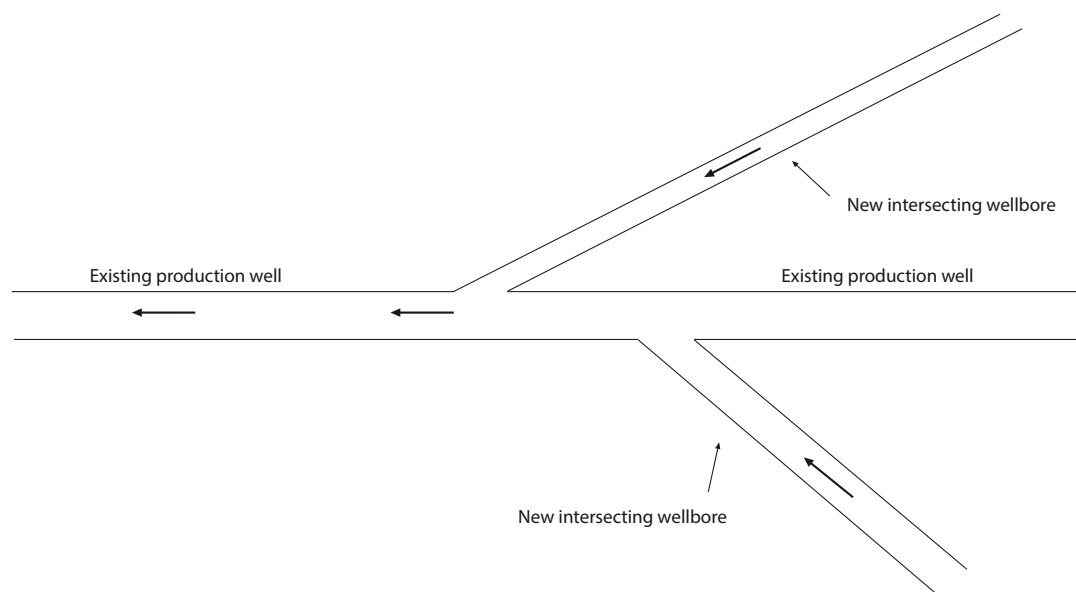
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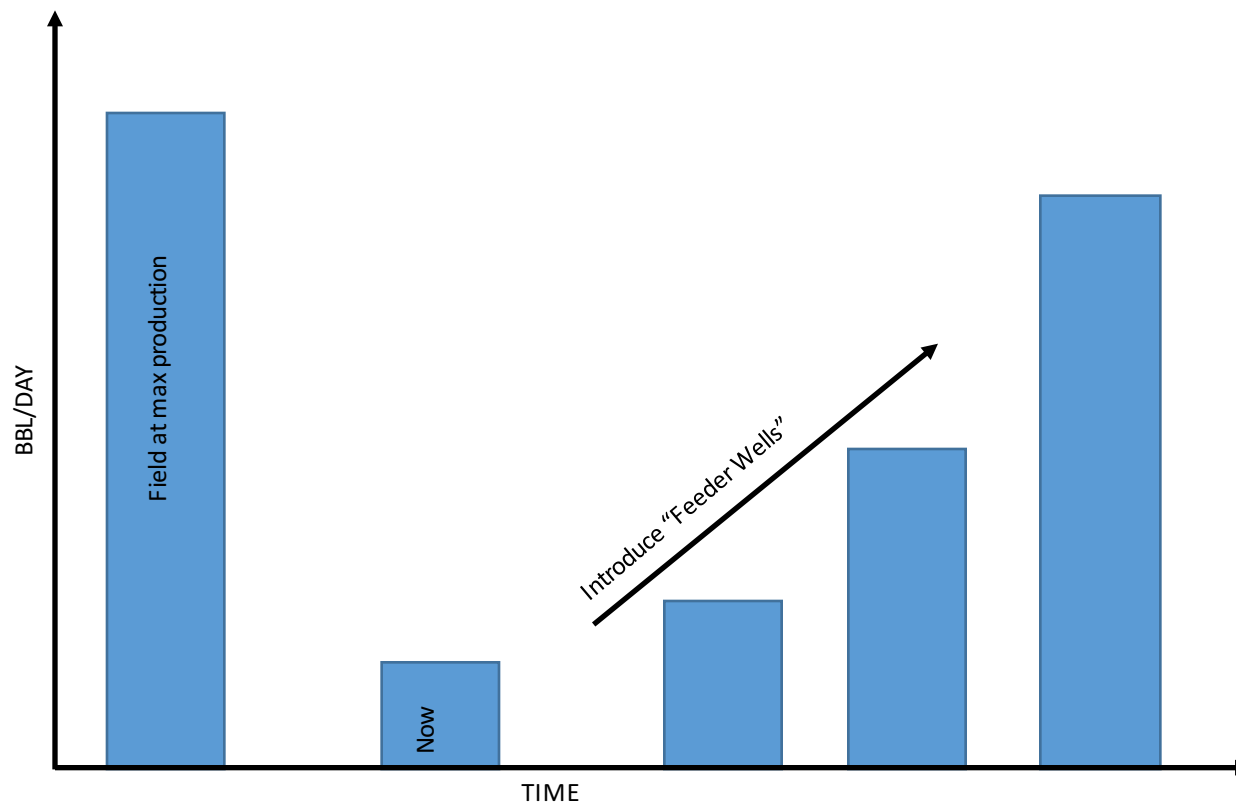


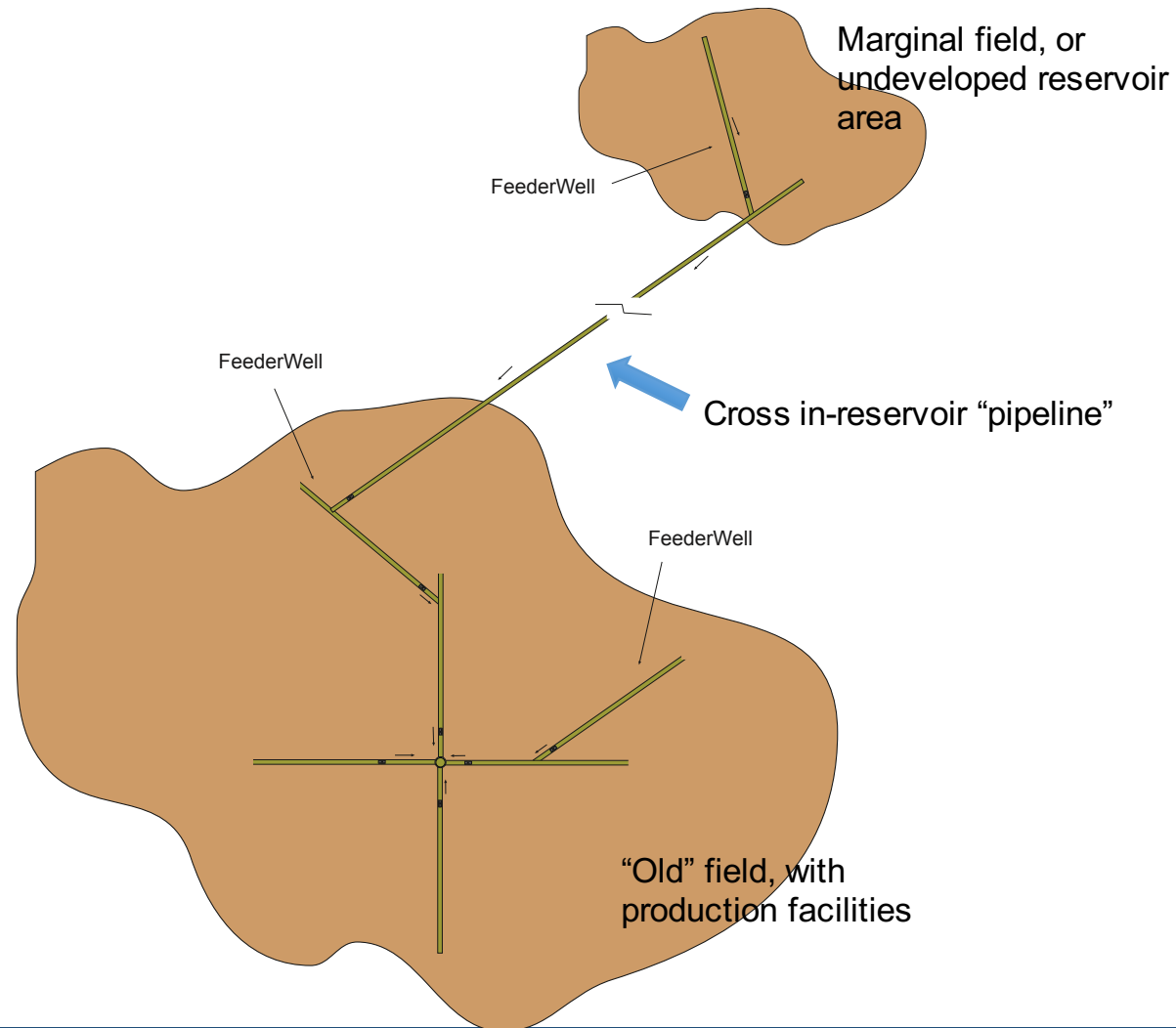
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With the same daily production







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High-impact innovations