EXCEED OILFIELD EQUIPMENT Canada

Inflow Control Devices

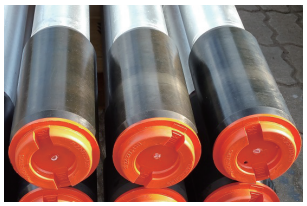
Exceed (Canada) Oilfield Equipment Inc.

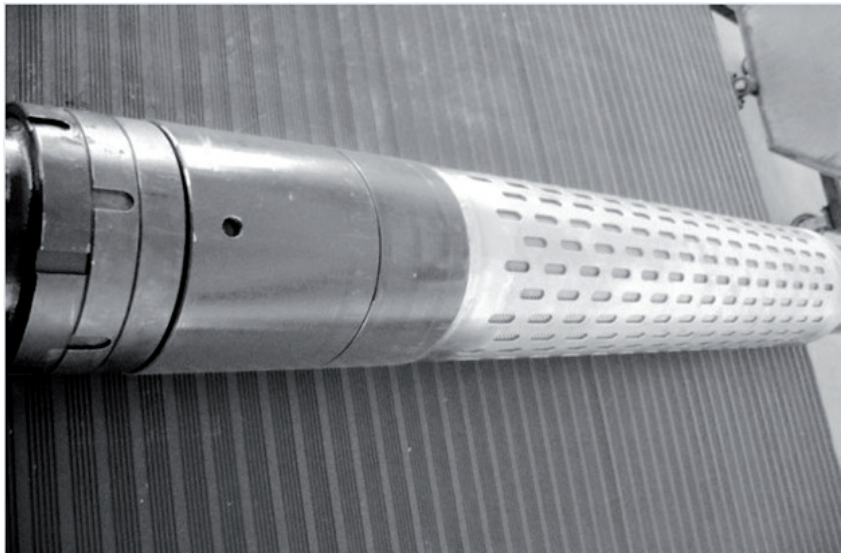
Exceed (Canada) is the Canadian division of Nine Ring Petroleum Machinery Co. Ltd., China. Already dominant in the global sucker rod market, Exceed (Canada) acquired Canadian Thermal Solutions Corp. (CTSC) in 2016 to expand our product line and to provide fully integrated solutions. We now provide a **full range of API certified well completion products**, and production and reservoir optimization solutions with **professional engineering and support**.

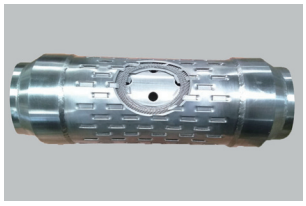
Key Products and Service

Our key products are listed below but not limited to:

- Sucker rods and PCP rods
- Vacuum insulated tubing and casing (VIT, VIC)
- High thermal efficiency tubing and casing
- Various sand control screens
- Passive and pro-active inflow control devices (ICD)
- Portable steam generators
- Conventional and thermal wellheads







Inflow Control Device Manufacturing Highlights

- API and ISO 9001 certified
- Computer controlled manufacturing
- 100% API compliance through consistent inspection and monitoring program
- 50+ granted patents on inflow control device innovation and premium connections
- 20+ year successful application in onshore and offshore wells
- Unique multi-chamber technology for sufficient pressure and reliable performance

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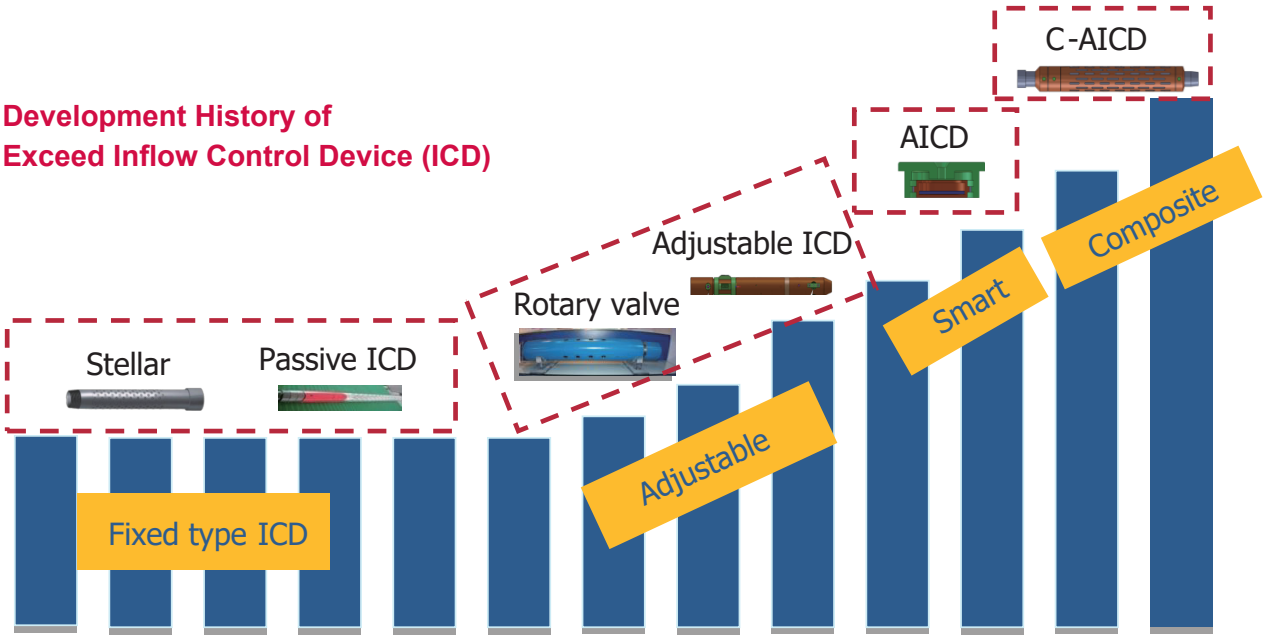
Exceed Inflow Control Device (ICD) Categories

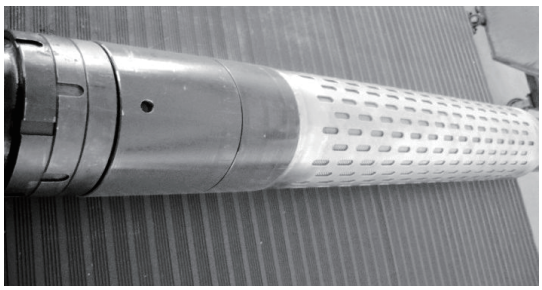
Fixed Type ICD	Adjustable ICD	Smart ICD	Composite ICD

Development History of Exceed Inflow Control Device (ICD)



EqualRes ICD

- Unique design for even pressure distribution along wellbore in heterogeneous reservoirs.
- 1st-stage pressure drop is staggered-pattern annular channel with slots on diverting plate.
- 2nd-stage pressure drop is created by long diverting tubes.
- 3rd-stage pressure drop is created by choke nozzles on rotary equalizing plate.
- Adjustable to realize different numbers of choke nozzles on surface or downhole.
- Tungsten alloy steel with special hardening processes for extending well life



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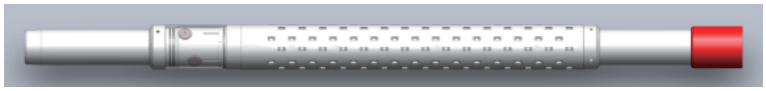
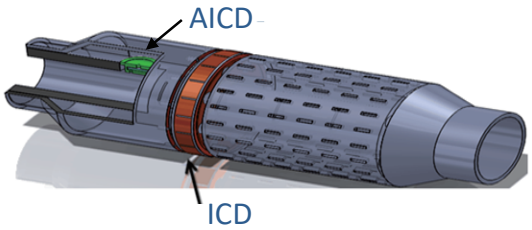
Autonomous ICD (AICD)

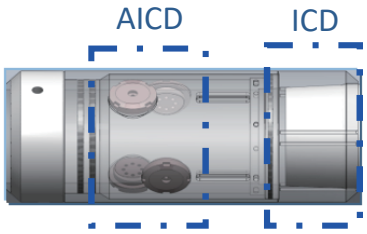
- Unique design restricts influx from unwanted fluids, especially after breakthrough occurs.
- Significantly enhance the flow of viscous oil and meanwhile restrict water or gas production.



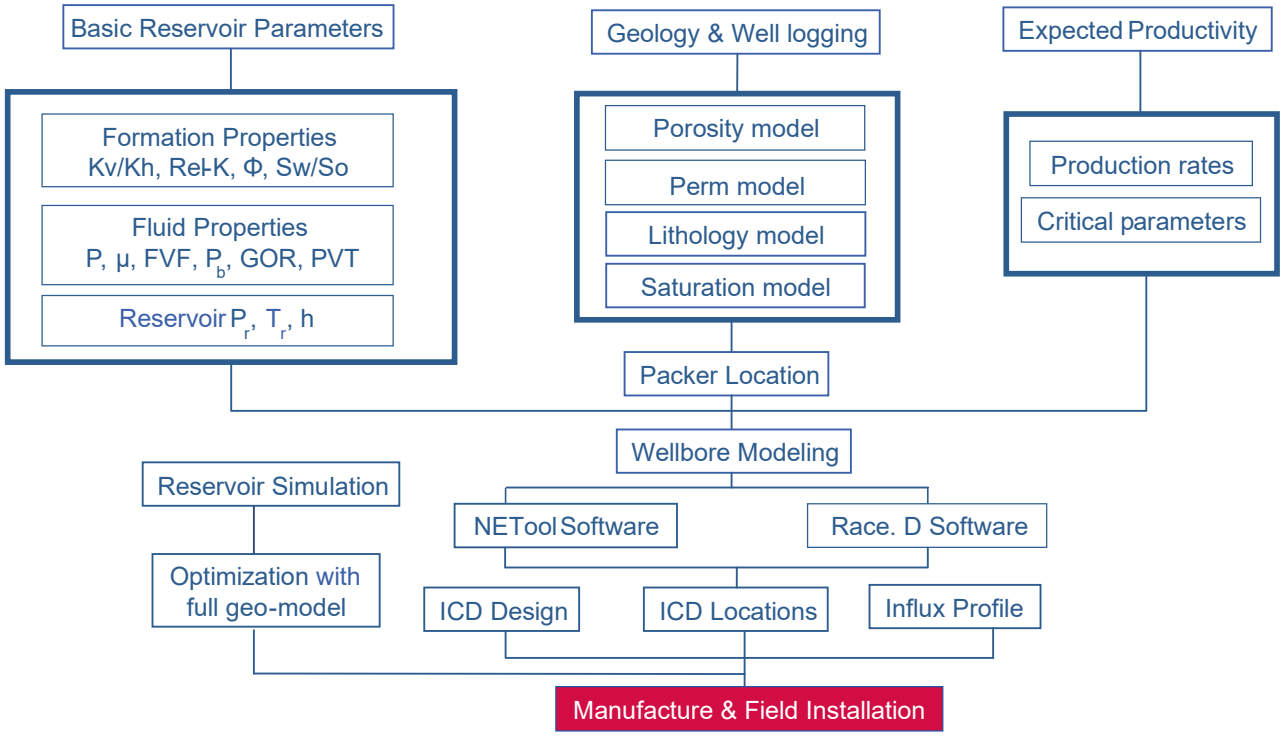
C-AICD

- Combined advantages of both passive ICD and autonomous ICD for both early and late stages of reservoir exploration.
- Delay water / gas breakthrough due to reservoir heterogeneity or heel effect at early stage.
- Restrict water or gas flow after breakthrough at late stage.





Exceed ICD Design Workflow



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2016
Established Canadian subsidiary;
Acquired Canadian Thermal Solutions Corp.

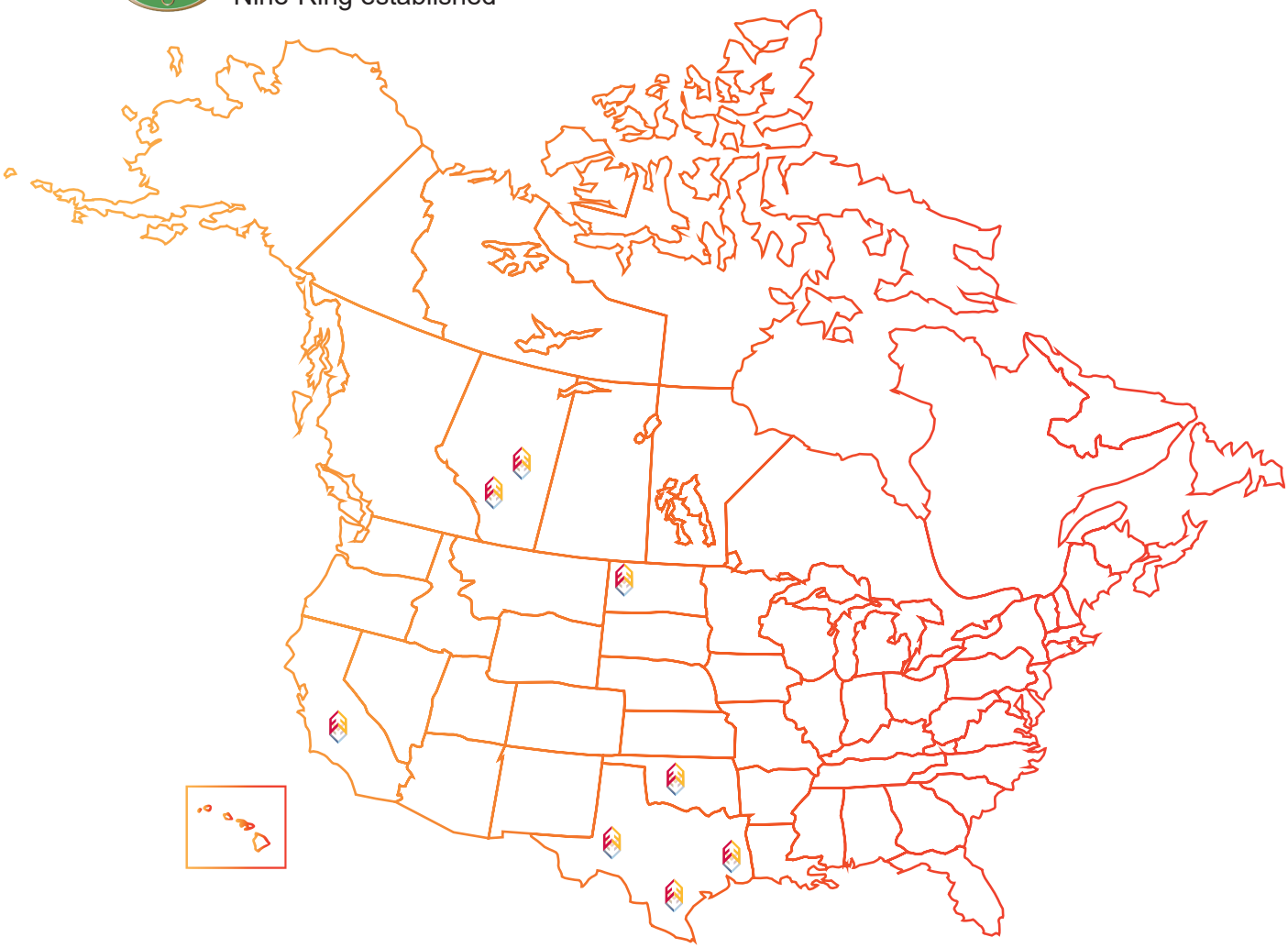
2015
Opened 2nd facility w/ 60+ million ft capacity;
Total 150+ million ft capacity per year

2012
Established USA subsidiary EXCEED OILFIELD EQUIPMENT

2007
Opened new facility w/ 90 million ft capacity; captured
60+% Chinese market; 1st automated forging machine in China

1994
Focused on sucker rod manufacturing

1984
Nine-Ring established



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