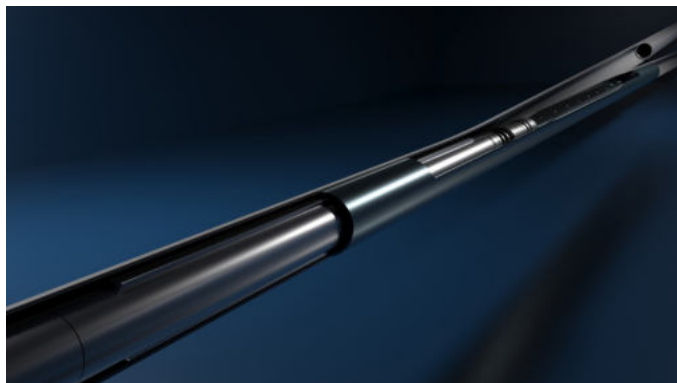


# UltraFlow Multi-Lateral Technology

## Black Diamond: Pioneering Efficiency in Multi-Lateral Technology

Discover a new chapter in multi-lateral technology with Black Diamond – Experience a 40% reduction in costs, sparing no aspect of your drilling operation – from casing and directional systems to bits, rigs, cuttings removal, pad construction, cementing, mud, wellhead installations, pump jacks, flow lines, to even mobilization and demobilization expenses.

Eliminate the need for intervention tools with Black Diamond's technology, streamlining your operations. Achieve a notable 50% reduction in trip count for dual laterals. Our system excels as the sole solution capable of indexing between laterals, facilitating zipper fracking and drill-out operations without the need for extra components. Experience true versatility with Black Diamond's multi-lateral technology. Opt for frac plugs or sliding sleeves as per your operational requirements. This adaptability ensures tailored precision in each lateral, providing flexibility without compromising efficiency.



## Key Components

### Hydraulic Release Running Tool

- Carries liner and liner hanger into hole
- No rotation requirement for work string release
- Carry & Rotate, or Push & Rotate modes aids liner transport in highly deviated wells
- High tensile capacity supports large liner loads

### Drop Off Mandrel

- Removes requirement for liner hanger packer
- Operated in cemented and non-cemented applications
- No moving parts or internal connections
- Full liner ID (no restrictions)

## Typical Deployment

1. Drill main bore
2. Install casing latch coupling or production packer
3. Install whipstock
4. Drill lateral, as required
5. Run lateral liner, as required
6. Retrieve whipstock
7. Install deflector assembly
8. Install upper completion, as required, and flow well

## Features and Benefits

### High Pressure During Frac Operations:

- 12,000 psi standard
- 15,000 psi option

### Flexibility of Well and Completion Type:

- Re-entry, new drill, or combination
- No limit to number of laterals
- No ID restrictions
- Plug Perforation
- Frac Sleeves
- Re-frac
- Gravel Packing
- Acid Stimulation
- Artificial Life

### Risk Reduction:

- Self aligning tools
- Minimal space out requirement
- Simple lateral isolation

### Simple Intervention:

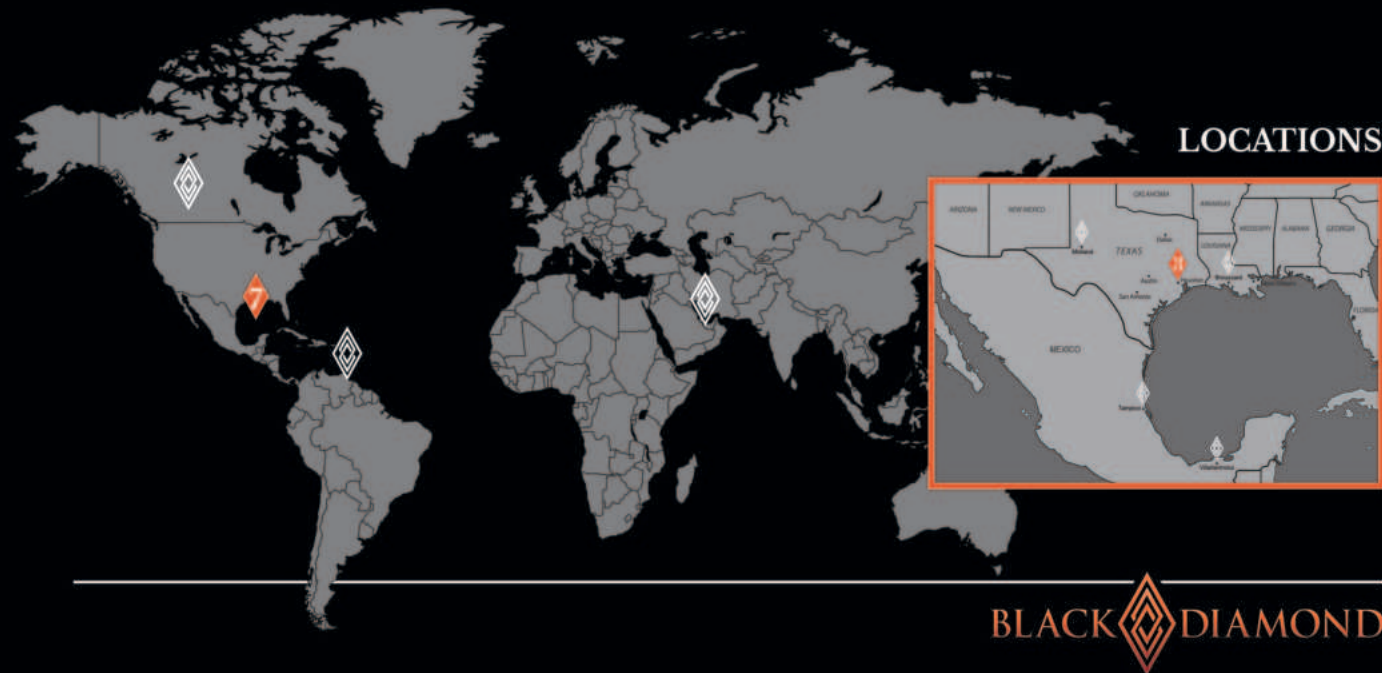
- No requirement for shut-in
- Deflector can remain in well

### Reduced Whipstock Costs:

- Same whipstock used for all laterals
- No window milling
- Reusable latching profile
- Reuse for future wells

### Low Operational Impact:

- Extremely short delivery times
- Simple wellsite corrections
- Index from one lateral to another without POOH
- Frac any lateral in any sequence
- Reduction in frac mobilization/ demobilization costs



## LOCATIONS



## USA

### BLACK DIAMOND CORPORATE

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Houston, Texas 77090  
1.281.443.0062

### BLACK DIAMOND BROUSSARD

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Broussard, LA 70518  
1.337.359.1994

### BLACK DIAMOND CONROE

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Conroe, TX 77306  
1.936.441.1480

### BLACK DIAMOND MWD

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Conroe, Texas 77303

### BLACK DIAMOND WEST TEXAS

3510 N. County Rd 1148  
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1.432.689.0076

## CANADA

### BLACK DIAMOND EDMONTON

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1.780.440.4220

## GUYANA

### BLACK DIAMOND GEORGETOWN

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Houston District  
East Bank Demerara  
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## MEXICO

### BLACK DIAMOND VILLAHERMOSA

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## MIDDLE EAST

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