

#### **Re-Entry Services**

# **Openhole Whipstock System** Inflatable Type Anchor (IPP<sup>TM</sup>)

Weatherford's openhole whipstock system with *IPP* packer anchor is a singletrip, screw-in style whipstock with inflatable packer anchor. The inflatable injection production packer (*IPP*) anchor enables the operator to position the lateral departure in the openhole wellbore without a false bottom or cement barrier, accessing the pay zone in the shortest possible route. This reliable, field-proven alternative eliminates multiple trips and costly cementing operations, helping to drive down overall installed well costs.

### **Applications**

- Efficient, reliable, cost-effective sidetracking of an existing openhole wellbore where cementing operations or false bottom are not achievable or economically feasible
- When an effective platform for sidetracking is needed in highly compressive formations where standard drilling operations are ineffective at kicking off to access new or alternative targets
- To selectively openhole sidetrack after target zones have been identified by openhole logging
- When lateral departure must be achieved in openhole horizontal applications where drilled-hole salvage is cost conducive

### Features, Advantages and Benefits

- The system's rugged cable element design supports additional loading required for harsh drilling operations or when the borehole is less than optimal.
- The IPP anchor's superior-strength elastomers provide excellent sealing performance, whether vertical or horizontal, and its optional elastomer package assures superior performance in high-temperature environments.
- This system's high-torque setting tool allows the attachment shear screw to shear by loading the drill string in either a downward or upward direction for operational flexibility.
- The setting tool torque lug feature allows for rotation of the whipstock assembly with no additional side-loading forces on the shear screw attachment bolt, providing increased reliability.
- Smooth transition of concave allows for drilling BHAs utilizing short tooth or for PDCstyle bits to be run immediately after initial whipstock installation.





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## **Specifications**

Whipstock						
Concave OD (in./ <i>mm</i> )	JDE Part Number	Concave Face Angle	Setting Tool Part Number	Setting Tool Connection	Concave Connection	Open Hole ID (in./ <i>mm</i> )
5-1/2 139.7	125406		115000	3 1/2-in IF	3 1/2-in IF	6.00 to 6.25 152.40 to 158.75
7 177.8	776932	3°	115623	Box	4.4/0 in VII	7.875 200.03
8 203.2	735312		115770	4 1/2-in IF Box	4 1/2-IN XH	8.50 to 8.75 215.90 to 222.25

## **Openhole Parts List**

#### 6- to 6-1/4 in.

Description	Part Number	Comment			
Open-hole, screw-in setting tool, 5.50-in., OD concave	115823	3.50-in. IF box up			
Open-hole, screw-in whipstock, 5.50-in., OD 3.50-in. IF pin	125406	No kick pad			
3.50-in. IF B×P pup joint (minimum 6 ft)	1160116				
2.00-in. Whipstock anchor IPP chassis	1191609				
5.50-in. Cable element (A5/59O)	437921	Standard element package			
5.50-in. Cable element (H4), high-temperature	437919	H <sub>2</sub> S environment Maximum 375°F ( <i>191°C</i> )			
2.375-in. NUE cap	1191032				
Element crossover	411493 (2)				
Redress/Service Kits					
Redress kit, 2.00-in. whipstock anchor IPP	1166356				
Crossover O-rings	769336 (2)				



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### **Openhole Parts List** (continued)

7-7/8 in.

Description	Part Number	Comment			
Open-hole, screw-in setting tool, 7.00-in., OD concave	115823	3.5-in IF box up			
Open-hole, screw-in whipstock, 7.00-in., 4.50-in. OD, XH pin	776932	No kick pad			
3.50-in. IF B×P pup joint (minimum 6 ft)	1160116				
2.00-in. Whipstock anchor IPP chassis	1191609				
5.50-in. Cable element (A5/59O)	437921	Standard element package			
5.50-in. Cable element (H4)	437919	H <sub>2</sub> S environment Maximum 375°F ( <i>191°C</i> )			
2.375-in. NUE cap	1190132				
Element crossover	411493 (2)				
Redress/Service Kits					
Redress kit, 2.00-in. whipstock anchor IPP	1166356				
Crossover O-rings	769336 (2)				

#### 8-1/2 to 8-3/4 in.

Description	Part Number	Comment		
Open-hole, screw-in setting tool, 8.00-in. concave	115770	4.50-in. IF box up		
Open-hole, screw-in whipstock, 8.00-in., 4.50-in. OD, XH pin	735312	No kick pad		
4.50-in. XH B×P pup joint (minimum 6 ft)	1152698			
2.50-in. Whipstock anchor IPP chassis	1190642			
6.75-in. Cable element (A5/59O)	437926	Standard element package		
6.75-in. Cable element (H4)	414501	H <sub>2</sub> S environment Maximum 375°F ( <i>191°C</i> )		
2.875-in. NUE cap	1191017			
Redress/Service Kits				
Redress kit, 2.50-in. whipstock anchor IPP	1148621			



## **Openhole Whipstock System** Inflatable Type Anchor ( $IPP^{TM}$ )

# **IPP Element Performance Curve**



Weatherford International Ltd. 515 Post Oak Blvd., Suite 600 Houston, Texas 77027 USA Tel: 713-693-4000 weatherford.com (4)

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