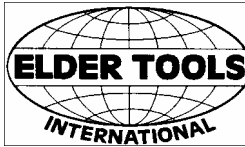


**ELDER TOOLS INTERNATIONAL**

P.O. Box 111                      Tel: 361-275-5600  
Cuero, TX 77954                Fax: 361-275-6700  
Web Site: <http://www.eldertools.com>  
Email: [oiltools@eldertools.com](mailto:oiltools@eldertools.com)



Hydraulic Packer

"ETI-DLH"

**DESCRIPTION:**

The Elder DLH Packer is a hydraulically set, mechanically held pressure-balanced packer ideal for deep, high pressure oil and gas production. The hydraulic setting feature combined with the pressure balance system make this tool a proven performer in multiple zone and deviated hole applications.

The packer components are locked into a single rigid unit while running in by the body lock feature. The body lock is a simple mechanical lock designed to prevent preset going in the hole.

Stacked packer installations for alternate zone completions are more practical due to the DLH's pressure balance system. The DLH is hydraulically actuated and pressure balanced to offset pressure fluctuations and reversals when in the set position.

The DLH releases quickly and easily by pulling tension into the tubing. Releasing shear value is field adjustable without disassembly.

**APPLICATIONS:**

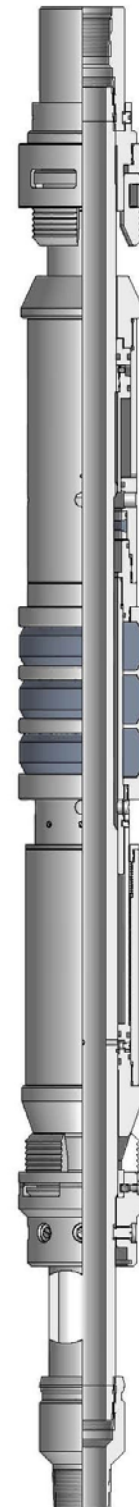
- Production or Injection
- Deviated Wellbores
- Dual or Stacked packer Installations

**Features and Advantages:**

- Holds forces and pressure differentials from both directions.
- Mechanical slip system above and below provides positive engagement with casing under all conditions.
- Short, compact design.
- Compatible with packer accessories.
- Innovative packing element system for positive pressure enhanced pack-off.
- Solid pre-set prevention system.

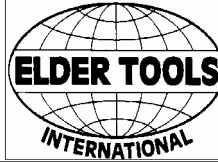
**Operation:**

The DLH packer is set by establishing a temporary plug in the tubing below and applying setting pressure on the tubing. The packer is released by straight up strain on the tubing string in excess of the previously selected releasing shear value.



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**Hydraulic Packer**  
 Model 'ETI-DLH'

Casing				Packer		
OD	Weight lbs./ft	Preferred Range of Casing IDs		Size	Max OD	
		Min.	Max.			
4-1/2	15.1	3.629		43A2	3.656	
	9.5-13.5	3.920	4.090	43A4	3.750	
5	18-20.8	4.156	4.276	43B2	4.000	
	11.5-15	4.408	4.560	43B4	4.125	
5-1/2	20-23	4.670	4.778	45A	4.500	
	14-20	4.778	5.044	45B	4.625	
5-1/2	20-23	4.670	4.778	45A2 x 2-7/8	4.500	
	14-20	4.778	5.044	45B x 2-7/8	4.625	
6	14-20	5.227	5.552	45D	5.188	
6-5/8	24-32	5.675	5.921	46A x 2-7/8	5.500	
	17-24	5.921	6.135	46B x 2-7/8	5.750	
7	29-35	6.004	6.184	47A2	5.812	
	26-32	6.094	6.276	47A4	5.875	
	17-26	6.276	6.538	47B	6.000	
7	26-32	6.094	6.276	47A4 x 3-1/2	5.875	
	17-26	6.276	6.538	47B x 3-1/2	6.000	
7-5/8	33.7-39	6.625	6.725	47C4	6.453	
	24-29.7	6.825	7.025	47D2	6.672	
	33.7-39	6.625	6.765	47C4 x 3-1/2	6.453	
	24-29.7	6.825	7.025	47D2 x 3-1/2	6.672	
9-5/8	43.5-53.5	8.535	8.755	51A	8.25	
	32.3-43.5	8.755	9.001	51B	8.50	