D&L Oil Tools	**SPRING LOADED RETRIEVING TOOL** 10-3/4" X 3-1/2"	Manual No: **DL-577-10750-327** Revision: **B** Revision Date: **04/24/2013**
Written by: B.Mathis		*Approved by: B.Oligschlaeger*

A) DESCRIPTION

The D&L Spring Loaded Retrieving Tool is used to set and retrieve the AS Retrievable Bridge Plug. Several sizes of Spring Loaded Retrieving Tools are available with different shoes in many sizes as well.

NOTE$_1$: For more information on the 10-3/4" AS Retrievable Bridge Plug, refer to Technical Manual *DL-725-10750-094*.

B) SPECIFICATION GUIDE

CASING SIZE (INCHES)	**TOOL OD** (INCHES)	**CONNECTION BOX UP**	**PART NUMBER**
10-3/4	9.312	3-1/2 EUE	57710

NOTE$_2$: Right hand set/ left hand release.

NOTE$_3$: Most of the component parts are manufactured from heat treated alloy steel. Therefore, extended exposure to corrosives can be detrimental to the metallurgy. Care in cleaning the tool soon after removal from the well can help extend the life of component parts. Close inspection of the parts is necessary, after removal, to identify any parts which require replacement.

C) OPERATING PROCEDURES

C-1) RUN IN AND SETTING AS RETRIEVABLE BRIDGE PLUG

Attach Spring Loaded Retrieving Tool to the AS Retrievable Bridge Plug pulling head. Run tool to desired depth and set the AS Retrievable Bridge Plug normally. To remove Spring Loaded Retrieving Tool, set down, then apply left-hand torque and pick up slowly to come off AS Retrievable Bridge Plug.

C-2) RETRIEVING AS RETRIEVABLE BRIDGE PLUG

Run to the depth of the AS Retrievable Bridge Plug. Retrieving tool will connect to pulling head automatically. Retrieve the AS Retrievable Bridge Plug normally.

D) DISASSEMBLY

NOTE$_4$: During disassembly, inspect and replace set screws as needed.

D-1) Clamp J-body (1) in vise.

D-1.1) Unscrew and remove set screws (5) from J-body (1).

D-1.2) Unscrew and remove top sub (2) from J-body (1).

CAUTION$_1$: Compression spring (4) is compressed with spring tension against top sub (2).

D-1.3) Remove compression spring (4) from J-body (1).

D-1.4) Unscrew and remove set screws (5) from milling shoe (6).

D-1.5) Unscrew and remove milling shoe (6) from J-body (1).

D-2) Unclamp and remove J-body (1) from vise.

D-3) Remove spring plunger (3) from J-body (1).

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E) ASSEMBLY

NOTE$_5$: Clean and inspect all parts. Replace all worn and damaged parts. Install parts in proper order and orientation.

E-1) Clamp J-body (1) in vise.

E-1.1) Screw milling shoe (6) onto J-body (1).

E-1.2) Screw set screws (5) into milling shoe (6).

E-1.3) Install spring plunger (3) and compression spring (4) into upper end of J-body (1)

E-1.4) Screw top sub (2) into J-body (1).

CAUTION$_1$: Compression spring (4) is compressed with spring tension against top sub (2).

E-1.5) Screw set screws (5) into J-body (1).

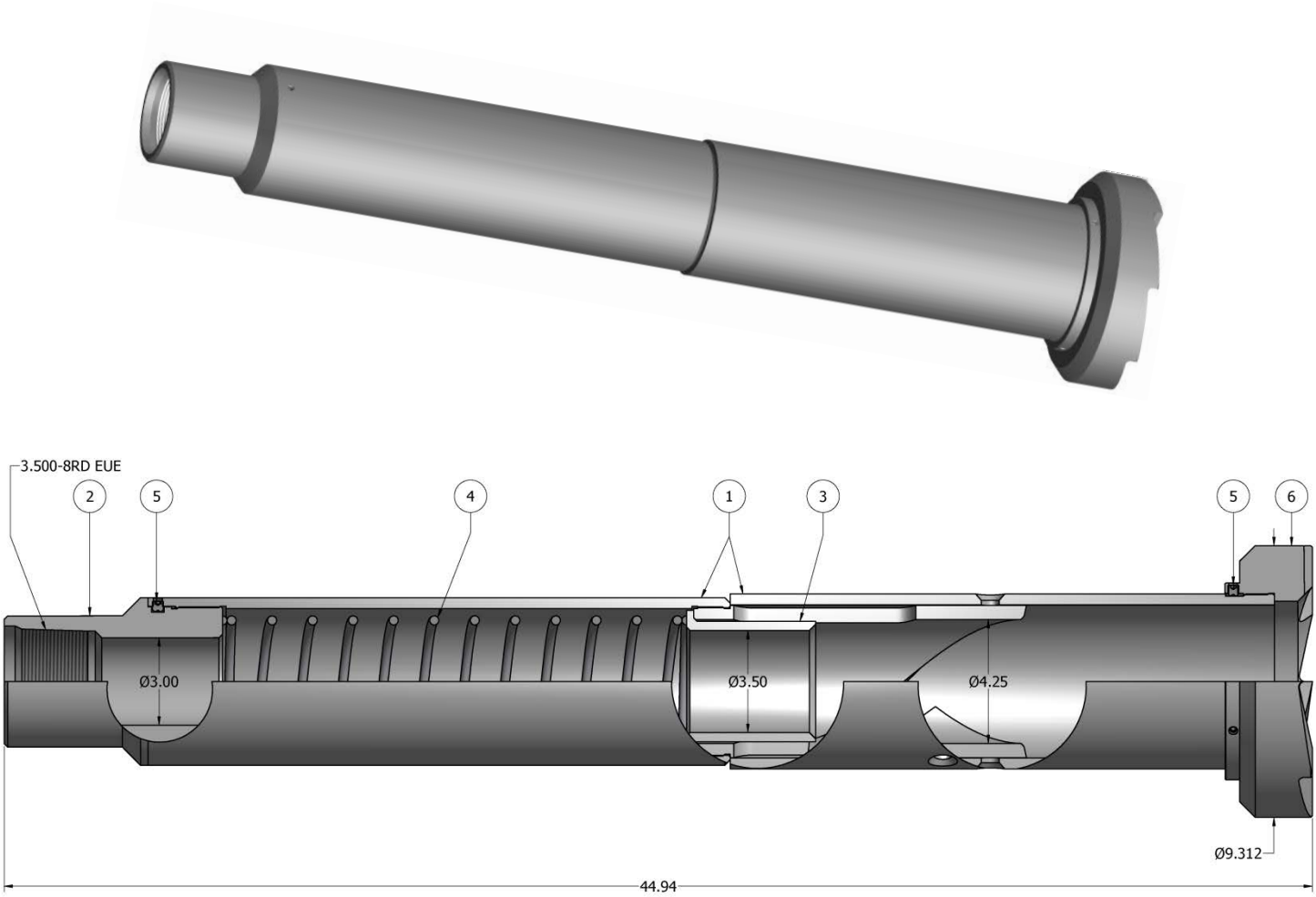
E-2) Unclamp J-body and remove assembled tool.

F) PARTS LIST

ITEM	QTY	DESCRIPTION	MATERIAL	P/N 57710
1	1	J-BODY WELDMENT	P-110	57785315
2	1	TOP SUB	P-110	57785610
3	1	SPRING PLUNGER	P-110	57785910
4	1	COMPRESSION SPRING	CHROME VANADIUM	60373920
5	5	SET SCREW 3/8-16 UNC X 3/8	STEEL	SSS037C037
6	1	MILLING SHOE	P-110	57710316

ASSEMBLED WEIGHT		141 LBS

G) TECHNICAL ILLUSTRATION



H) REVISION HISTORY

DATE	REVISION	DECRIPTION OF CHANGES	REVISED BY	APPROVED BY
04/24/13	B	Rewrote manual.	J.Anderson	K.Plunkett