

**From:** Clawson, Bryan R  
**To:** Morel, Brian P  
**Subject:** RE: Centralizers  
**Importance:** Normal  
**Attachments:** 1233670 7 SBSO CT Cent 7.75 Max OD.pdf

Brian, it take WFT about 7 – 10 day to get more Subs Built. As far a Centralizers, I would recommend the attached Single Bow Slip CT Centralizers with Max OD of 7 3/4". It is a on way Centralizers.

Regards,

Bryan Clawson  
Weatherford Cementation Sales  
Office: 281-260-1393  
Cell: 713-823-2385  
E-Mail: bryan.clawson@weatherford.com

**From:** Morel, Brian P [mailto:Brian.Morel@bp.com]  
**Sent:** Wednesday, March 31, 2010 11:34 AM  
**To:** Clawson, Bryan R  
**Subject:** Re: Centralizers

The amount listed is above the nexen centralizers. Let me know time to manufacture. Also do you have any clamp-ons

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Brian Morel  
BP Drilling Engineer  
713-303-0120 cell  
281-366-1706 office  
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BlackBerry Wireless Device

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**From:** Clawson, Bryan R <bryan.clawson@weatherford.com>  
**To:** Morel, Brian P  
**Sent:** Wed Mar 31 17:16:03 2010  
**Subject:** RE: Centralizers  
Brian, you are getting 6 each of the attached from Nexen. If you need more, I would have to manufacture!

Bryan Clawson  
Weatherford Cementation Sales  
Office: 281-260-1393  
Cell: 713-823-2385  
E-Mail: bryan.clawson@weatherford.com  
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**From:** Morel, Brian P [mailto:Brian.Morel@bp.com]  
**Sent:** Wednesday, March 31, 2010 9:29 AM  
**To:** Clawson, Bryan R  
**Subject:** Centralizers



Bryan.  
What do you have available for 7" pipe 32 ppf with hydril 513 flush connctions? Need 7-10 of them.

Thanks  
Brian

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Properties of Part 00571900 - CENT, bow spring 7 STR SO NTWLD CT 36E DBL row STSCR CS, B (Engineering)

Part Number	00571900	Name	CENT, bow spring 7 STR SO NTWLD CT 36E DBL row STSCR CS
Primary Legacy Number	1233670	Version	B.2
Secondary Legacy Number		Is Prime	Not Set
Type	Inseparable	Source	Make
Described By	Document Number	Version	
	D000212652	B.1	
ECN That Caused This Version	81040 (Updated attributes, BOM, and described by document)		
Classification	Weatherford/Cementing/Casing accessories/Bow spring centralizer		

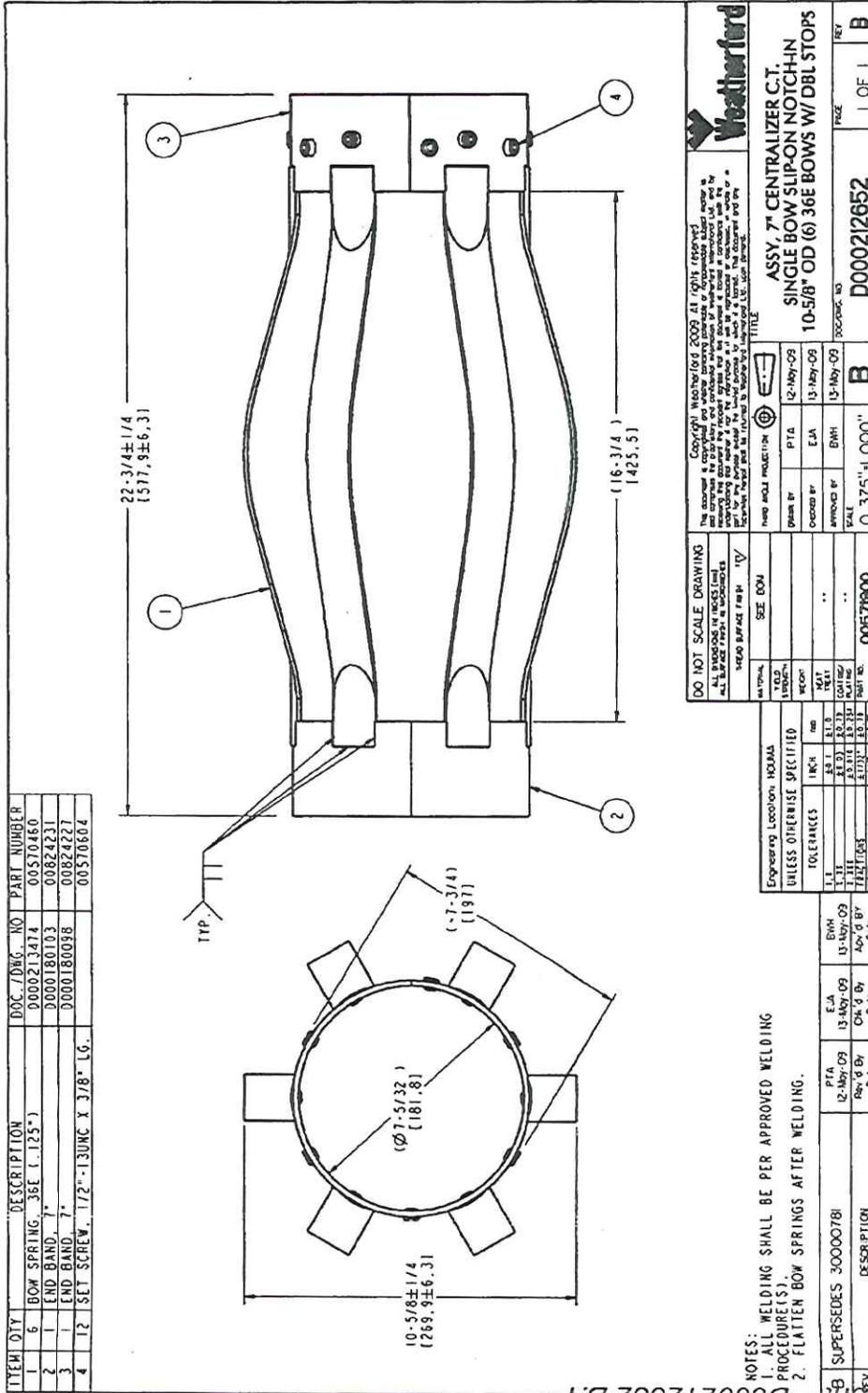
Attribute	Value	Attribute	Value
BOW SPRING CONFIGURATION	straight	BOW SPRING MATERIAL	alloy steel
BOW SPRING QUANTITY	6	BOW SPRING TYPE	36E
CASING SIZE	7.000 in	CASING SIZE FRACTIONAL	7
CASING SIZE RANGE	7	CENTRALIZER FABRICATION	notch-welded
END BAND MATERIAL	carbon steel	END BAND TYPE	slip-on
FASTENER MATERIAL	alloy steel zinc plated	FASTENER QUANTITY	12
FASTENER TYPE	1/2-13 x 3/8 cup point	FASTENING MECHANISM	double row set screws
GENERIC DESCRIPTION (NODE SUB-GROUP)	Bow Spring Centralizer	INSIDE DIAMETER	7.156 in
LENGTH	22.75 in	LONG DESCRIPTION	Centralizer, bow spring 7 straight slip-on notch-welded close tolerance with 36E (.125) bow springs 10.625 OD, double row set screws, carbon steel
MAXIMUM OUTSIDE DIAMETER	10.625 in	MAXIMUM RIGID OUTSIDE DIAMETER	7.750 in
MODEL DESIGNATION	123	TYPE	close tolerance
WELD SPECIFICATION	WW217		

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NOTES:  
 1. ALL WELDING SHALL BE PER APPROVED WELDING PROCEDURES (S).  
 2. FLATTEN BOW SPRINGS AFTER WELDING.

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DO NOT SCALE DRAWING  
 ALL DIMENSIONS IN INCHES (mm)  
 UNLESS OTHERWISE SPECIFIED  
 SHEED SURFACE FINISH: SEE DDM

WELDING: TIG  
 TOLERANCES: FRACTIONS, DECIMALS, ANGLES, THREADS, WELDING

DATE: 12-MAY-09  
 BY: PTA  
 CHECKED BY: PTA  
 DATE: 13-MAY-09  
 BY: EJA

DATE: 13-MAY-09  
 BY: DMH

SCALE: 0.375"=1.000"

PROJECT NO: D000212652

TITLE: ASSY, 7" CENTRALIZER C.T. SINGLE BOW SLIP-ON NOTCH-IN 10-5/8" OD (6) 36E BOWS W/ DBL STOPS

REV: 1 OF 1

DATE: 13-MAY-09

BY: PTA

CHK'D BY: PTA

DATE: 13-MAY-09

DESCRIPTION: SUPERSEDES 30000781