








Titan Torque Services Ltd.  
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<b>Customer</b>	Titan Torque
<b>Rig</b>	
<b>Well</b>	
<b>Assembly</b>	Spud
<b>Friction Factor</b>	1.0
<b>Dope Type</b>	Best o Life
<b>Date</b>	21/03/2012
<b>Job Number</b>	TTS120000

Description	Tool Drawing	Serial Number	Length (ft)	Outer Dim (in)	Inner Dim (in)
<b>lift sub</b> 5" Shank lift sub Low Torque connection for lifting only		TTRT0001	3	5	N/A
		<b>Connection Type:</b>	7 5/8 REG	<b>Target Torque:</b>	12000 (ft lbs)
<b>box x box</b> Box box sub, low torque for lifting only		TTRT1005	5	9 1/2	3
		<b>Connection Type:</b>	7 5/8 REG	<b>Target Torque:</b>	12000 (ft lbs)
<b>36 Hole Opener (Pin Box)</b> 6 point 36" Hole opener c/w 6 x 16/32 Nozzles		TTRT0024	8	9 1/2	3
		<b>Connection Type:</b>	7 5/8 REG	<b>Target Torque:</b>	89730 (ft lbs)
<b>Drill Collar Pin Up</b>		TTRT1102	7	9 1/2	3
		<b>Connection Type:</b>		<b>Target Torque:</b>	37000 (ft lbs)
<b>Mill Tooth RC</b> 26" Bit		TTRT5001	1.5	RC 14 3/4 to 28 (API 7 5/8)	N/A
<b>Total Length</b>			<b>24.5 (ft)</b>		