

Enduralloy Tubing

- **Customer in East Texas was experiencing short run times between tubing leaks**
- **Tubing failure was usually one or two joints above seating nipple**
- **Failures were rod cut**
- **Wells are between 8500' and 9000'**
- **Dewatering gas wells**
- **Typically less than 50 BWPD**
- **Two joints of boronized (Enduralloy) tubing were installed above seating nipple on problem wells**

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- **Only one well had any other change besides the tubing**
 - **The SMC 2 had a timed, gas engine installed**
- **All boronized tubing was identified with a stainless steel band applied to OD, just about 5' below collar**
- **Band was stamped with date to identify age if/when fails**
- **All boronized tubing in these wells is ID process**
- **The following slide shows run days between tubing failures, average days run in red and current run time in green (as of July 2011)**

2 Joints of Enduralloy Tubing

* = Initial rod up

	Hole In Tubing (Days Run)	Hole In Tubing (Days Run)	Hole In Tubing (Days Run)	Hole In Tubing (Days Run)	Avg. Days Run until HIT	
A-1	94	118			106	
BGU-3	82*				82	
EC-2	79*				79	
GL-2	82	116			99	
PGU-2	77	211			144	
S-1	61	79	195		112	
S-2	93	78	145		105	
TBK-5	99	222			161	

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	Hole In Tubing (Days Run)	Hole In Tubing (Days Run)	Hole In Tubing (Days Run)	Hole In Tubing (Days Run)	Avg Day Run	Current Days as of 5/09/12
A-1	94	118	636 – J55		106	+ 1448
BGU-3	82*	OFF 209			82	
EC-2	79*	OFF 366			79	
GL-2	82	116	952 – J55		99	+ 882
PGU-2	77	211	OFF 332		144	
S-1	61	79	195	735 – J55	112	+ 785
S-2	93	78	145		105	+ 1444
TBK-5	99	222	OFF 310	Workshop	161	