

Ty Woodworth

From: Ty Woodworth
Sent: Thursday, August 20, 2015 7:00 AM
To: mike.hickey@state.co.us; Diana Burn - DNR
Cc: Ty Woodworth
Subject: GW 27-23 - Casing Leak - 05-123-24314
Attachments: Well Bore GW 27-23 Ty 8-20-15.pdf; GW 27-23 pdf CBL.PDF

Good Morning Diana/Mike,

We have discovered a casing leak in the GW 27-23 (API: 05-123-24314). I have attached a WBD. We have been fishing stuck tubing and we have been directed to leave the fish until next year. We went in to pressure test casing and discovered the casing will not hold over 800 psi somewhere between 4400 ft and 6400 ft. We will be narrowing that down today.

We have gotten our fish top down to 6650 ft. We believe end of tubing to be around 7300 ft. Top of cement is 6380 ft. The bradenhead had maybe 20 psi when we rigged up and it has since blown down and has not pressured back up.

We are being asked to see what we can do to minimize the cost on this well in 2015 and our plans are to re-evaluate and either repair or P&A in 2016.

My question is can we set a plug at 6550 ft (170 ft below TOC) and leave this until 2016 to repair the casing and continue fishing operations to repair or plug? Or what would we have to do to satisfy your requirements for the time being and minimize cost spent at this point? We are about 8 days in at \$140K.

Well Highlights:

8 5/8" Shoe: 448 ft

Casing Leak: somewhere between 4400 ft and 6400 ft

TOC: 6380 ft

Top of 2 3/8" fish: 6650 ft

Perfs:

- Nio: 7038 ft – 7132 ft
- Codell: 7354 ft – 7374 ft

PBTD: 7481 ft

4 1/2" 11.6# casing

Formation Tops:

- Parkman: 3530 ft
- Sussex: 4274 ft
- Niobrara: 7036 ft
- Codell: 7354 ft

I will call later on to follow up. Thank you for your help!

Ty Woodworth

Production Engineering Lead

twoodworth@gwogco.com

970-274-9254



Great Western Operating Company, LLC
2005 Howard Smith Ave. East
Windsor, CO 80550