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From: jason@edspringconsulting.com
To: jgilbert@enid.org
Cc:
Date: 2026-03-18 17:36:24
Subject: [SUSPECTED URL]Re: [SUSPECTED URL]Insight on Kaw Lake Pipeline for fiber run

That is fantastic news!

On Wed, Mar 18, 2026 at 5:26 PM Jerald Gilbert <jgilbert@enid.org> wrote:

> Jason,
>
> Claude is a wonderful tool. My wife Denise, talks about him all the time! As you know, Claude is subject to fact checking and there are inaccuracies below. But suffice to say, Yes! I think we can use the Kaw easements for a city fiber utility (which is exactly what is proposed)! We may need to negotiate temporary construction easements and would likely find some tough negotiators along the way, but doable. Of course, we could also run into litigation but I think we can do it and would prevail. That is Melissa's opinion too looking at the language in one of the easements, which were generally standardized.
>
> I've made City MOU comments and think they are automatically saved to the google drive.
>
> **Jerald R Gilbert**
>
> City Manager
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> City of Enid – Administration Department
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> CITY OF Enid OKLAHOMA
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> ---
>
> **From:** Jason Singer <jason@edspringconsulting.com>
> **Sent:** Tuesday, March 17, 2026 11:46 AM
> **To:** Jerald Gilbert <jgilbert@enid.org>
> **Cc:** Marcie Mack <marcie@growenid.com>; Troy Phillips <Troyphillips580@icloud.com>; Aaron Singer <aaron@seaplane.com>; Chad Dillingham <chad@dillinghaminsurance.com>
> **Subject:** [SUSPECTED URL]Insight on Kaw Lake Pipeline for fiber run

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Jerald,

Wondering if you made progress on exploring whether we can use the KLP easements to run dark fiber to I-35.

And here is a thought. . .when I asked Claude (my AI model of choice "Is there a world in which we could run dark fiber from Enid to I-35 interchange inside the Kaw Lake Pipeline vs along the easement?" This is what he had to say:

Jason — short answer: yes, absolutely. This is a well-proven approach, and the Kaw Lake pipeline is actually an unusually good candidate for it. Here's the landscape.

The technology is real and deployed globally. The established technique is "pipe-within-a-pipe," where a special-purpose small-bore messenger pipe is inserted into an existing water pipe, and fiber is then blown into the messenger pipe using standard industry techniques. ICE Virtual Library Two companies are leading this space: Craley Group (UK-based, with their Atlantis Hydrotec system) and Aqualinq (a newer US entrant that came out of stealth in early 2025). Installation is primarily trenchless, rapid, cost-effective, and achieved with minimal civil works. Install rates of 1km/day are readily achievable, compared to typical civil dig trenching at 50m/day. ICE Virtual Library

The Kaw Lake pipeline specs work in your favor. The pipeline consists of roughly 30" bar-wrapped concrete pipe and 36" spiral weld pipe running approximately 70 miles from Kaw Lake near Ponca City to Enid. Carstensencontracting At that diameter, a messenger pipe carrying fiber is negligible from a flow perspective. The T Series product is designed for pipes 110mm and greater, which covers trunk/distribution fiber. Emerald You're well above that threshold.

The killer dual-use angle: pipeline monitoring. This is where it gets strategically interesting for your City of Enid relationship. Fiber installed inside water pipes can also provide highly accurate real-time leak detection, helping water operators dramatically reduce losses and operating costs. ICE Virtual Library A single fiber from the installed cable can serve as a distributed acoustic/temperature sensor that monitors the entire 70-mile pipeline for leaks, intrusion, and structural events in real time. That's a tangible Boomtown-to-Enid value proposition you could fold into the MOU.

Key practical considerations for your specific situation:

The pipeline route runs northeast from Enid through Garfield, Noble, Osage, and Kay counties toward Kaw Lake near Ponca City — which puts it in the I-35 corridor zone. The question is exactly where the pipeline crosses or approaches I-35 and whether that intercept point lines up with a major fiber meet-me or long-haul route. You'd want to confirm the precise crossing point and whether there's a lit fiber facility nearby at that interchange.

The bigger negotiation question is that this is a City of Enid municipal asset, funded partly through a WIFIA loan from the EPA US EPA, so you'd need to understand whether the WIFIA terms restrict third-party infrastructure co-location inside the pipeline. That's a Latham question. But the City has every incentive to say yes if you're offering them a distributed fiber sensing system as part of the deal — they get pipeline monitoring infrastructure they'd otherwise have to pay for separately.

Water quality testing before, during, and after installation has shown no measurable adverse effects in any deployment worldwide ICE Virtual Library — so the potable water contamination objection is well-addressed by the existing track record.

Bottom line: I'd frame this as a three-part value prop in the City MOU: (1) Boomtown gets a protected fiber path from the I-35 corridor to the campus without new easement acquisition, (2) the City gets real-time distributed pipeline monitoring at no cost, and (3) excess fiber capacity could serve rural broadband along the route — which maps directly to your Positive-By-Design framework. Have Latham check the WIFIA loan covenants and then approach Aqualinq or Craley for a feasibility study scoped to the Kaw Lake pipeline diameter and route.

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