## Tingey, Christopher

**From:** Bierschenk, Arnold
**Sent:** Wednesday, February 14, 2018 2:42 PM
**To:** Tingey, Christopher
**Subject:** FW: Review of NBU 6-W42 and NBU 5-W41
**Attachments:** NBU # 10-5. Final Plug..pdf; NBU #10-6. Final Plug.pdf; NBU #10-8. Final Plug..pdf; NBU #16-14. Final Plug.pdf

---

**From:** Erwin Pino [mailto:erwin.pino@chaparralenergy.com]
**Sent:** Thursday, July 18, 2013 3:42 PM
**To:** Todd, Robert <Todd.Robert@epa.gov>
**Cc:** Bierschenk, Arnold <bierschenk.arnold@epa.gov>; Harvill, Jana <Harvill.Jana@epa.gov>
**Subject:** RE: Review of NBU 6-W42 and NBU 5-W41

Oops!

I forgot to attach the re-plugging reports. Here you go.

Erwin Pino
Regulatory Engineer
Chaparral Energy, L.L.C.
701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114
Direct Phone (405) 426-4081
Direct Fax (405) 425-8681

---

**From:** Erwin Pino
**Sent:** Thursday, July 18, 2013 1:49 PM
**To:** 'Todd, Robert'
**Cc:** Arnold Bierschenk (Bierschenk.Arnold@epamail.epa.gov); Harvill, Jana (Harvill.Jana@epa.gov)
**Subject:** RE: Review of NBU 6-W42 and NBU 5-W41

Robert,

**NBU #6-W23.** In 2006, ran 3-1/2" csg to 2903' & cemented w/50 sks reg cement. Ran 1" tbg to 320' between 4-1/2" & 8-5/8" csgs & pumped 105 sks reg cement from 320' to surface. The USDW was protected. For details see the attached form 139.

**NBU #5-W22.** P&A in 1990. Squeeze off formation @ 2942' w/50 sks class H cement. Filled hole with mud. Cut off 4-1/2" csg @ 238' & POOH w/same. RIH w/tbg & pumped 125 sks reg cement from 291' to surface. The USDW was protected.

**NBU #5-W23.** P&A in 1989. Filled hole with mud. Cut off 4-1/2" csg @ 220' & POOH w/same. RIH w/tbg & pumped 110 sks reg cement from 280' to surface. The USDW was protected.

The following wells have been re-plugged by the EPA standards (see attachment), so these wells were brought into compliance.

- **NBU #10-5**
- **NBU #10-6**
- **NBU #10-8**
- **NBU #16-14**
- NBU #4-3. In progress

Furthermore, the monitor wells on the North side of Phase I are being installed and they will be completed in two weeks. I will send to you the monitor well completion reports, logging, and initial analysis as soon as they are completed.

Let me know if you have any questions or comments.

Thanks,

Erwin Pino
Regulatory Engineer
Chaparral Energy, L.L.C.
701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114
Direct Phone (405) 426-4081
Direct Fax (405) 425-8681

---

**From:** Todd, Robert [mailto:Todd.Robert@epa.gov]
**Sent:** Tuesday, July 16, 2013 2:26 PM
**To:** Erwin Pino
**Subject:** Review of NBU 6-W42 and NBU 5-W41

Erwin,

We've reviewed your request for injection for NBUs 6-W42 and 5-W41.

We need clarification and further documentation for the following wells
6-w23, This summary for this active injector shows to the operator had 1" tubing run to 320' between the 4 ½ and 8 5/8 tubing with 105 sx cement pumped, however the documentation show the top of cement was tagged at 1775' below surface. The outer casing, the 8 5/8 shows cement from 120' to surface. Please provide documentation of the cementing procedures and records so we can determine adequacy for this well.

5-W22, The summary for this well, P&Ad in 1990, isn't clear that the casing was cemented 50' below the USDW or that the hole was filled with cement to surface after the 4 ½ casing was pulled.

5-W23, The summary for this well, P&Ad in 1989, isn't clear that the casing was cemented 50' below the USDW or that the hole was filled with cement to surface after the 4 ½ casing was pulled, such that the USDW is protected from 50" below the USDW.

Thanks, Robert

*Robert M. Todd, P.E.*
US EPA Region 6
1445 Ross Ave.
Dallas, Tx, 75202
(214) 665-2156 (direct)
(214) 665-2191 (fax)
Todd.Robert@epa.gov