

5/12/05

Laurie Brunner

From: Tom Hayden [thayden@dnr.state.ne.us]
Sent: Thursday, May 12, 2005 5:51 PM
To: Laurie Brunner; Susan France
Subject: RE: TA-31

Laurie

Sorry

Situation

Total acres under pivot 110 acres

When well drilled in ,Neb, approx 1952 acres proposed to be irrig was 101

It use to be all gravity irrigated 800-1200 gpm now with the pivot will be able to pump Ne well at 700 gpm & irrig 110 acres & again save water by not irrig. the land under pivot in Wy which is only say 600 Ft apart.

A little more information about the land under the pivit.Yrs ago there existed a state line canal, which was at one time one the Decreed canals under the North Platte decree which,in fact I adjudicated it in about 1975, that portion of the French canal in Ne, which Wy has never cancelled by the way, & it was cancelled.

I looked back & @ that time the land owners that were under the French located in Ne drilled wells to replace the water diverted from the NPR. When that was all done they thought about getting the land into the Mitchell ID but with the good wells just, @ that time, decided against it.

So land on both sides of the states is not new irrigated lands for sure. @ one time there was 1025 acres under the French Ditch.

In conculusion land under pivot 110 acres
- 34 acres in Wy 76 acres in Ne

water Reg well that will be used to
1952 the 110 acres was drilled in
to irrigate 101 acres.

will be not so by operating the pivot he
Ne & also irrigating approx 25 acres in
not pumping water from the

COY

well located
located in a Wy
located in Wy.

approx 600 ft from well in Ne
to the land under pivot

Thanks

Tom

-----Original Message-----

From: Laurie Brunner [mailto:lbrunner@dnr

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Sent: Thursday, May 12, 2005 2:20 PM
To: Susan France
Cc: Tom Hayden
Subject: TA-31

I haven't gotten Tom's e-mail yet, but he wrote me one in April that mentioned the acres in Wyoming were irrigated with another well.

The application does not list exactly what the old irrigated area was (in Nebraska), but 1993 and 1999 areal photos show several oblong patches in the vicinity of this well that may have been flood irrigated by the well totaling about 96 acres. According to the app., the center pivot would irrigate about 76.5 acres in NE and 33.5 acres in WY, totaling 110 acres. Because the well is changing from flood to center pivot application, the pumping rate will be reduced from 1200 to 800 gpm.

So Tom is correct: there does not appear to be an expansion of irrigated acres in Nebraska. The total withdrawal requested is 440,640 gpd, of which 40 acre-ft will be used in WY. Using the ration of 33.5/76.5, this means a total of 91.3 acre-ft, or 30 mgpy will be applied in NE. This works out to be 37 days of continuous application.

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