

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
16S	43E	15											X						
16S	43E	21	X	X	X	X	X			X					X				
16S	43E	22						X	X										

Method of Determination:

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
Plat B Well		5			2 inch
Plat C Well		5			2 inch

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS- Engineer's Report

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

Plat B Well	Q=100 GPM	=	0.22 CFS
Plat C Well	Q=200 GPM	=	0.45 CFS
Total = 0.67 CFS			

E. FLOW CALCULATIONS

Measured Method:

☐ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

$$\text{VOL DOMESTIC} = 50 \times 1.2 \text{ AFA } 60.0 \text{ AFA}$$

G. NARRATIVE/REMARKS/COMMENTS

System consists of two 5 hp wells (Plat B & Plat C Wells) connected to the distribution system to supply water to all 402 lots of Bear Lake West Subdivision (Plat B-224 lots & Plat C-178 lots). Each lot is stubbed in and all meters have been installed. Currently there are 118 residences hooked into the system. Under normal usage the pumps run about 3 hours per day.

Plat B well produces 100 gpm with a 275 psi pressure head. Plat C well produces 200 gpm with a 280 psi head. The system has a total of five reservoirs. Four reservoirs are located in plat B with one reservoir in plat C. Reservoirs in Plat B are located in the NENENE Sec 21 (Reservoir #1), the SENWNE Sec 21 (Reservoir #2), the SENENW Sec 21 (Reservoir #3), and the SWNENW Sec 21 (Reservoir #4). Plat C reservoir is located in the SESENEW of Sec 21. Plat B reservoirs are 35,000 gallons each and Plat C reservoir is 55,000 gallons for a total storage of 195,000 gallons (0.59 af)

Domestic includes irrigation with each lot being 1/4 acre. The maximum irrigation per lot would be 1/8 acre, but 1/16 acre irrigation would be the norm.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.330 CFS	
	<u>Totals:</u>	0.330 CFS	60.00 AF

2. Recommended Amendments

☒ Change P.D. as reflected above ☒ Add P.D. as reflected above ☐ None

☒ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Keith C Wilson Date 8/19/2005

Reviewer Nate Arave Date 10/23/2007

MEMORANDUM

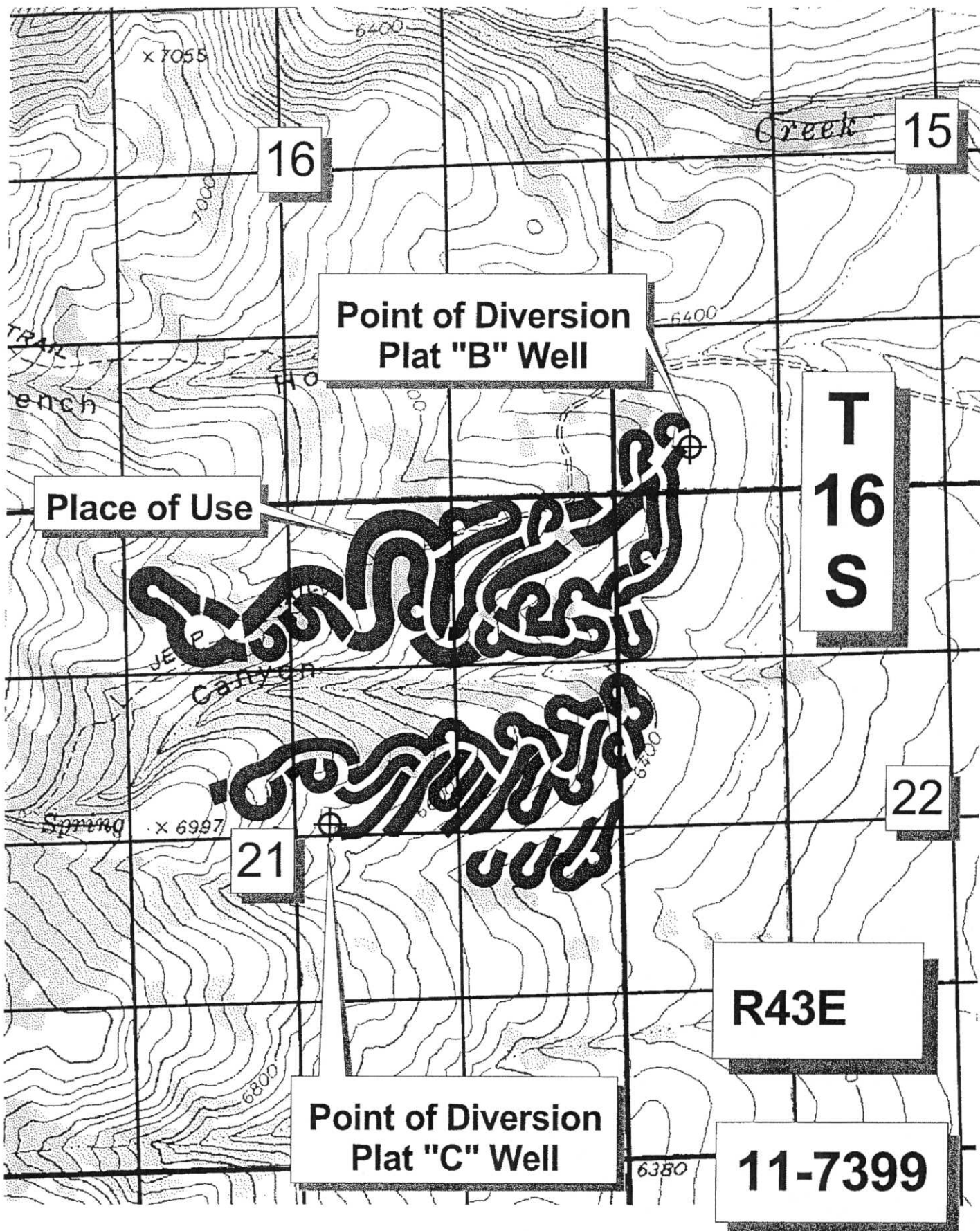
Date: August 19, 2005
To: Water Right File 11-7399
From: kwilson
Re: Field Report Narrative

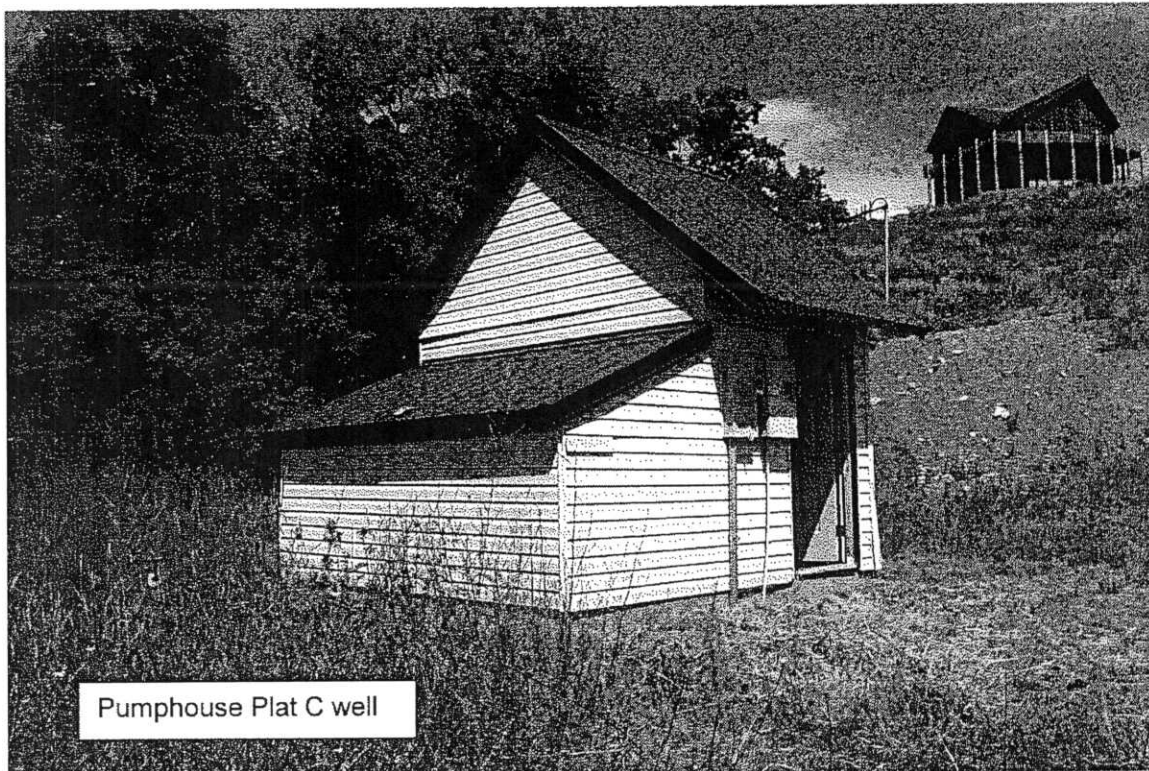
§ 11-7424

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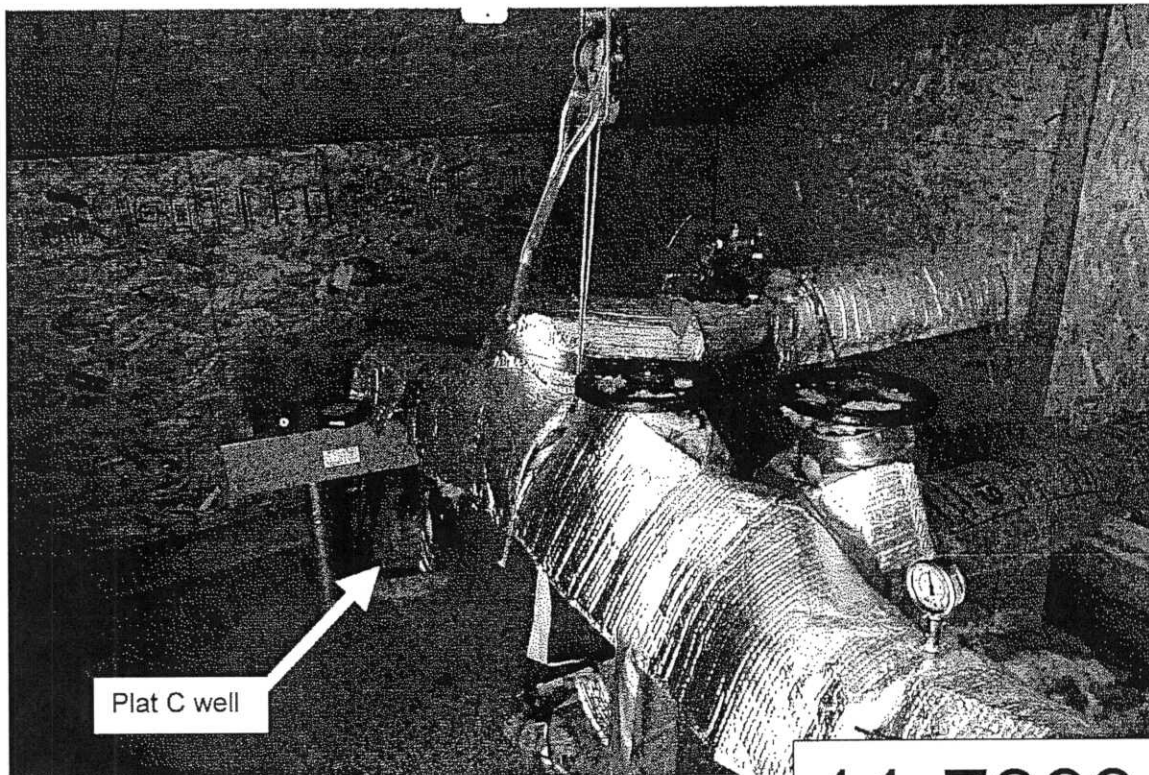
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Pumphouse Plat C well



Plat C well

11-7399



Plat B Well

11-7399