



Water-Data Report 2010

**470709106061401 Local number 16N44E25BBAC01**

Tongue River Member of Fort Union Formation

Garfield County, MT

LOCATION.--Lat 47°07'09", long 106°06'14" referenced to North American Datum of 1927, in NE ¼ NW ¼ NW ¼ sec.25, T.16 N., R.44 E., Garfield County, MT, Hydrologic Unit 10040104, Owner: Burlington Northern Santa Fe Railroad.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 103 ft. Upper casing diameter 4.0 in; top of first opening 63 ft, bottom of last opening 103 ft. Drilled in Oct. 1980.

DATUM.--Land-surface datum is 2,645 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of 4.0 in casing, on north side, 1.10 ft above land-surface datum, Oct. 25, 1983, to current year. Reference point established Oct. 12, 1999: top of steel rod near casing, 2.99 ft below measuring point.

PERIOD OF RECORD.--Measured annually from 1984 to 1992 and continuously recorded from Apr. 13, 1998, to current year.

GAGE.--Digital water-level recorder set to record every 4 hours from Apr. 13, 1998 to current year.

REMARKS.--All water levels reported below land-surface datum. Recorder was down for repairs Jan. 12, to July 13, 2010.

EXTREMES FOR PERIOD OF RECORD.--Highest instantaneous water level, 29.73 ft, Apr. 13, 1999 (from recorder); lowest, 32.08 ft, Oct. 20, 2001 (from recorder).

EXTREMES FOR CURRENT YEAR.--Highest instantaneous water level, 30.54 ft, June 25, (measured); lowest, 31.90 ft, Nov. 4, (from recorder).

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM  
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

[Measurement method: V, calibrated electric tape--accuracy of instrument has been checked. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Jan 12	31.00	V	--	Jul 13	30.85	V	--
Jun 25	30.54	V	--	Sep 8	31.45	V	--

470709106061401 Local number 16N44E25BBAC01—Continued

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	31.59	31.81	31.36	31.10	---	---	---	---	---	---	30.96	31.36
<b>2</b>	31.65	31.88	31.40	31.03	---	---	---	---	---	---	30.97	31.32
<b>3</b>	31.68	31.84	31.41	31.08	---	---	---	---	---	---	30.95	31.29
<b>4</b>	31.71	31.87	31.35	31.09	---	---	---	---	---	---	30.94	31.34
<b>5</b>	31.69	31.82	31.31	31.04	---	---	---	---	---	---	30.97	31.40
<b>6</b>	31.64	31.75	31.37	31.07	---	---	---	---	---	---	31.02	31.44
<b>7</b>	31.63	31.80	31.36	31.11	---	---	---	---	---	---	31.08	31.41
<b>8</b>	31.70	31.81	31.32	31.05	---	---	---	---	---	---	31.08	31.43
<b>9</b>	31.72	31.84	31.28	31.00	---	---	---	---	---	---	31.08	31.46
<b>10</b>	31.77	31.80	31.23	31.00	---	---	---	---	---	---	31.13	31.45
<b>11</b>	31.77	31.76	31.21	31.01	---	---	---	---	---	---	31.14	31.40
<b>12</b>	31.75	31.67	31.20	---	---	---	---	---	---	---	31.16	31.36
<b>13</b>	31.74	31.65	31.22	---	---	---	---	---	---	---	31.16	31.35
<b>14</b>	31.70	31.64	31.24	---	---	---	---	---	---	30.84	31.14	31.35
<b>15</b>	31.73	31.66	31.23	---	---	---	---	---	---	30.80	31.11	31.36
<b>16</b>	31.77	31.64	31.20	---	---	---	---	---	---	30.79	31.10	31.39
<b>17</b>	31.75	31.60	31.19	---	---	---	---	---	---	30.80	31.14	31.36
<b>18</b>	31.69	31.55	31.21	---	---	---	---	---	---	30.80	31.17	31.37
<b>19</b>	31.72	31.58	31.18	---	---	---	---	---	---	30.81	31.21	31.40
<b>20</b>	31.72	31.54	31.16	---	---	---	---	---	---	30.79	31.22	31.46
<b>21</b>	31.76	31.45	31.12	---	---	---	---	---	---	30.81	31.23	31.42
<b>22</b>	31.73	31.48	31.09	---	---	---	---	---	---	30.86	31.24	31.41
<b>23</b>	31.71	31.49	31.13	---	---	---	---	---	---	30.89	31.22	31.40
<b>24</b>	31.65	31.50	31.15	---	---	---	---	---	---	30.88	31.18	31.37
<b>25</b>	31.71	31.51	31.14	---	---	---	---	---	---	30.90	31.19	31.34
<b>26</b>	31.71	31.45	31.15	---	---	---	---	---	---	30.92	31.24	31.38
<b>27</b>	31.64	31.40	31.14	---	---	---	---	---	---	30.92	31.29	31.36
<b>28</b>	31.72	31.41	31.13	---	---	---	---	---	---	30.92	31.29	31.37
<b>29</b>	31.79	31.41	31.08	---	---	---	---	---	---	30.93	31.31	31.35
<b>30</b>	31.75	31.38	31.05	---	---	---	---	---	---	30.94	31.32	31.32
<b>31</b>	31.76	---	31.09	---	---	---	---	---	---	30.95	31.36	---
<b>Max</b>	31.79	31.88	31.41	---	---	---	---	---	---	---	31.36	31.46
<b>Min</b>	31.59	31.38	31.05	---	---	---	---	---	---	---	30.94	31.29

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