

County: Marshall Fraction: NE NE NE NW Sec. 16 T. 5 S R. 6 E

**CORRECTION(S) to WATER WELL COMPLETION RECORD Form WWC-5 (to rectify lacking or incorrect information)**

Owner: Lundberg Brothers

If location corrected, was listed as:

Section-Township-Range: \_\_\_\_\_

Fraction (¼ calls): NE NE W16

Location changed to:

\_\_\_\_\_

NE NE NE NW

Other changes: Initial statements: \_\_\_\_\_

Changed to: \_\_\_\_\_

Comments: \_\_\_\_\_

Verification method: Typed GPS coordinates into KGS LEOWEB software. Confirmed by typing address of well location into the KGS WCC5 web mapper.

Initials: SW Date: 07-31-2019

Submitted by:  Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3724

Kansas Dept. of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367

**WATER WELL RECORD Form WWC-5**

Original Record  Correction  Change in Well Use

Division of Water Resources App. No.

Well ID

|   |   |                             |                                 |   |
|---|---|-----------------------------|---------------------------------|---|
| <b>1 LOCATION OF WATER WELL:</b><br>County: <b>MERSHALL</b> | Fraction<br>$\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ W16 $\frac{1}{2}$ | Section Number<br><b>16</b> | Township Number<br><b>T 5 S</b> | Range Number<br><b>R 6 E</b> <input type="checkbox"/> <b>W</b> <input type="checkbox"/> |
|---|---|-----------------------------|---------------------------------|---|

|   |  |
|---|--|
| <b>2 WELL OWNER:</b> Last Name: <b>LUNDBERG BROTHERS</b><br>Business: <b>LUNDBERG BROTHERS</b><br>Address: <b>331 TEMPLE ROAD</b><br>Address:<br>City: <b>WATERVILLE</b> State: <b>KS</b> ZIP: <b>66548</b> | First: _____<br>Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input type="checkbox"/><br><b>345 APACHE LANE WATERVILLE, KS</b> |
|---|--|

|   |   |  |
|---|---|--|
| <b>3 LOCATE WELL WITH "X" IN SECTION BOX:</b><br>N<br><br>W<br>E<br>S<br>1 mile   | <b>4 DEPTH OF COMPLETED WELL:</b> ..... <b>62</b> ..... ft.<br>Depth(s) Groundwater Encountered: 1) ..... ft.<br>2) ..... ft. 3) ..... ft., or 4) <input type="checkbox"/> Dry Well<br>WELL'S STATIC WATER LEVEL: ..... <b>21</b> ..... ft.<br><input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) <b>5/30/2019</b><br><input type="checkbox"/> above land surface, measured on (mo-day-yr) .....<br>Pump test data: Well water was ..... ft.<br>after ..... hours pumping ..... gpm<br>Well water was ..... ft.<br>after ..... hours pumping ..... gpm<br>Estimated Yield: <b>50+</b> gpm<br>Bore Hole Diameter: ..... <b>8</b> ..... in. to <b>62</b> ..... ft. and<br>..... in. to ..... ft. | <b>5 Latitude:</b> ..... <b>39 37.429N</b> ..... (decimal degrees)<br><b>Longitude:</b> ..... <b>96 45.633W</b> ..... (decimal degrees)<br><b>Horizontal Datum:</b> <input type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input checked="" type="checkbox"/> NAD 27<br><b>Source for Latitude/Longitude:</b><br><input type="checkbox"/> GPS (unit make/model: <b>MAGELLAN EXPLORIST</b> .....)<br>(WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No)<br><input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map<br><input type="checkbox"/> Online Mapper: ..... |
| <b>6 Elevation:</b> ..... ft. <input type="checkbox"/> Ground Level <input type="checkbox"/> TOC<br><b>Source:</b> <input type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map<br><input type="checkbox"/> Other ..... |   |  |

**7 WELL WATER TO BE USED AS:**

|   |  |   |
|---|--|---|
| 1. Domestic:<br><input checked="" type="checkbox"/> Household<br><input type="checkbox"/> Lawn & Garden<br><input type="checkbox"/> Livestock | 5. <input type="checkbox"/> Public Water Supply: well ID .....                     | 10. <input type="checkbox"/> Oil Field Water Supply: lease .....                                      |
| 2. <input type="checkbox"/> Irrigation  | 6. <input type="checkbox"/> Dewatering: how many wells? .....                      | 11. Test Hole: well ID .....  |
| 3. <input type="checkbox"/> Feedlot   | 7. <input type="checkbox"/> Aquifer Recharge: well ID .....                        | <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical |
| 4. <input type="checkbox"/> Industrial  | 8. <input type="checkbox"/> Monitoring: well ID .....                              | 12. Geothermal: how many bores? .....   |
|   | 9. Environmental Remediation: well ID .....  | a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical                  |
|   | <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction | b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water        |
|   | <input type="checkbox"/> Recovery <input type="checkbox"/> Injection               | 13. <input type="checkbox"/> Other (specify): .....   |

**Was a chemical/bacteriological sample submitted to KDHE?**  Yes  No If yes, date sample was submitted: .....

Water well disinfected?  Yes  No

**8 TYPE OF CASING USED:**  Steel  PVC  Other ..... **CASING JOINTS:**  Glued  Clamped  Welded  Threaded

Casing diameter ..... **5** ..... in. to ..... **42** ..... ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.

Casing height above land surface ..... in. Weight ..... **2.8** ..... lbs./ft. Wall thickness or gauge No. **285**

**TYPE OF SCREEN OR PERFORATION MATERIAL:**

Steel  Stainless Steel  Fiberglass  PVC  Other (Specify) .....

Brass  Galvanized Steel  Concrete tile  None used (open hole)

**SCREEN OR PERFORATION OPENINGS ARE:**

Continuous Slot  Mill Slot  Gauze Wrapped  Torch Cut  Drilled Holes  Other (Specify) .....

Louvered Shutter  Key Punched  Wire Wrapped  Saw Cut  None (Open Hole)

**SCREEN-PERFORATED INTERVALS:** From ..... ft. to ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

**GRAVEL PACK INTERVALS:** From ..... ft. to ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

**9 GROUT MATERIAL:**  Neat cement  Cement grout  Bentonite  Other .....

Grout Intervals: From ..... **5** ..... ft. to ..... **25** ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

**Nearest source of possible contamination:**

|   |   |  |   |   |
|---|---|--|---|---|
| <input type="checkbox"/> Septic Tank            | <input checked="" type="checkbox"/> Lateral Lines | <input type="checkbox"/> Pit Privy     | <input type="checkbox"/> Livestock Pens     | <input type="checkbox"/> Insecticide Storage  |
| <input type="checkbox"/> Sewer Lines            | <input type="checkbox"/> Cess Pool                | <input type="checkbox"/> Sewage Lagoon | <input type="checkbox"/> Fuel Storage       | <input type="checkbox"/> Abandoned Water Well |
| <input type="checkbox"/> Watertight Sewer Lines | <input type="checkbox"/> Seepage Pit              | <input type="checkbox"/> Feedyard      | <input type="checkbox"/> Fertilizer Storage | <input type="checkbox"/> Oil Well/Gas Well    |
| <input type="checkbox"/> Other (Specify) .....  |   |  |   |   |

Direction from well? **NORTHEAST** Distance from well? **100** ..... ft.

| 10 FROM | TO | LITHOLOGIC LOG     | FROM | TO | LITHO. LOG (cont.) or PLUGGING INTERVALS |
|---------|----|--------------------|------|----|--|
| 0       | 8  | BROWN CLAY         |      |    |  |
| 8       | 16 | TAN CLAY           |      |    |  |
| 16      | 25 | TAN SHALE          |      |    |  |
| 25      | 36 | LIMESTONE (YELLOW) |      |    |  |
| 36      | 40 | YELLOW SHALE       |      |    |  |
| 40      | 45 | RED SHALE          |      |    |  |
| 45      | 58 | LIMESTONE (YELLOW) |      |    |  |
| 58      | 62 | GRAY SHALE         |      |    |  |

**Notes:**

**11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was  constructed,  reconstructed, or  plugged under my jurisdiction and was completed on (mo-day-year) **5/30/2019** ..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **518** ..... This Water Well Record was completed on (mo-day-year) **6/14/2019** ..... under the business name of **BLUE VALLEY DRILLING INC.** Signature: *[Signature]*