

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

County: Seward

Location listed as:

Location changed to:

Section-Township-Range: 18-33S-34W

18-34S-33W

Fraction ($\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$): NE NE SE

NE NE NE SE

Other changes: Initial statements: _____

Changed to: _____

Comments: _____

verification method: Latitude & Longitude, KGS' "LEO" conversion tool,
water right information in WIMAS database, and mapping tool
& aerial photos on KGS website. initials: ARL date: 5/23/2012

submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3726
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

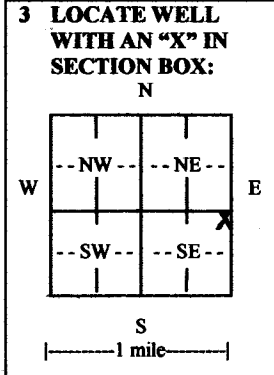
45370

1 LOCATION OF WATER WELL: County: Seward	Fraction ¼ NE ¼ NE ¼ SE ¼	Section Number 18	Township No. T 33 S	Range Number R 34 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here .
From Liberal, approx. 7 mi. West & 9 mi. North

Global Positioning System (GPS) information:
Latitude: **.37.09012**..... (in decimal degrees)
Longitude: **100.94050**..... (in decimal degrees)
Elevation:
Datum: WGS 84, NAD 83, NAD 27
Collection Method:
 GPS unit (Make/Model:)
 Digital Map/Photo, Topographic Map, Land Survey
Est. Accuracy: <3 m, 3-5 m, 5-15 m, >15 m

2 WATER WELL OWNER: City of Liberal
RR#, Street Address, Box #: **325 N Washington**
City, State, ZIP Code : **Liberal, Ks 67905**



4 DEPTH OF COMPLETED WELL **707**..... ft.
Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL.....ft. below land surface measured on mo/day/yr. **5/14/09**.....
Pump test data: Well water was **232**.....ft. after **24**..... hours pumping. **839**..... gpm
EST. YIELD.....gpm. Well water was.....ft. after..... hours pumping..... gpm
Bore Hole Diameter **36**.....in. to **707**.....ft., and.....in. to.....ft.
WELL WATER TO BE USED AS: Public water supply Geothermal Injection well
 Domestic Feedlot Oil field water supply Dewatering Other (Specify below)
 Irrigation Industrial Domestic-lawn & garden Monitoring well
Was a chemical/bacteriological sample submitted to Department? Yes No
If yes, mo/day/yr sample was submitted.....
Water well disinfected? Yes No

5 TYPE OF CASING USED: Steel PVC Other
CASING JOINTS: Glued Clamped Welded Threaded
Casing diameter **.16**..... in. to **707**..... ft., Diameter in. to ft., Diameter in. to ft.
Casing height above land surface **16**..... in., Weight **62**.....lbs./ft., Wall thickness or gauge No. **375**.....
TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel PVC Other (Specify)
 Brass Galvanized Steel None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
 Continuous slot Mill slot Gauze wrapped Torch cut Drilled holes None (open hole)
 Louvered shutter Key punched Wire wrapped Saw cut Other (specify)
SCREEN-PERFORATED INTERVALS: From **240**..... ft. to **360**..... ft., From **400**..... ft. to **540**..... ft.
From **566**..... ft. to **592**..... ft., From **646**..... ft. to **700**..... ft.
GRAVEL PACK INTERVALS: From **216**..... ft. to **707**..... ft., From..... ft. to..... ft.
From..... ft. to..... ft., From..... ft. to..... ft.

6 GROUT MATERIAL: Neat cement Cement grout Bentonite Other
Grout Intervals: From **0**..... ft. to **206**..... ft., From **206**..... ft. to **216**..... ft., From..... ft. to..... ft.
What is the nearest source of possible contamination:
 Septic tank Lateral lines Pit privy Livestock pens Insecticide storage Other (specify below)
 Sewer lines Cesspool Sewage lagoon Fuel storage Abandoned water well
 Watertight sewer lines Seepage pit Feedyard Fertilizer storage Oil well/gas well
Direction from well Distance from well

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	Top Soil	164	182	White Clay, Limerock
2	20	Brown Clay, Caliche, Few Gray Clay	182	210	Fine to Med. Sand, Coarse Ledges
20	31	Fine Sand, Tight	210	216	Brown & Yellow Clay, Limerock
31	58	Brown Sandy Clay, Firm, Few Sand	216	545	Fine-Md. Coarse Sand, Few Thin Clay
58	63	Fine Sand	545	564	Brown Sticky Clay, Few Sand
63	83	Brown & White Sandy Clay	564	701	Very Silty to Fine Sand, Thin Clay
83	94	Fine to Small Sand	701	707	Brown & Red Clay
94	103	Brown Sandy Clay			
103	129	Fine to Med. Sand, Few Ledges			
129	140	Tan&Brown Sandy Clay, Few Limerock			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo/day/year) **5/7/2009**..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **145**..... This Water Well Record was completed on (mo/day/year) **5/30/2009**..... under the business name of **Henkle Drilling & Supply Co., Inc.**..... by (signature) *[Signature]*

INSTRUCTIONS: Use typewriter or ball point pen. **PLEASE PRESS FIRMLY** and **PRINT** clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of \$5.00 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>.