

CORRECTION(S) TO WATER WELL RECORD (WWC-5)

(to rectify lacking or incorrect information)

Location listed as:

Section-Township-Range: _____

Fraction ($\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$): _____

County: McPherson

Location ~~changed to:~~

7-17.5-2 W

NW NW NW SE

Other changes: Initial statements: Saline County

Changed to: McPherson County

Comments: _____

verification method: Latitude & longitude, KGS' "LEO" conversion tool,
and mapping tool on KGS website.

initials: DRL date: 3/8/2012

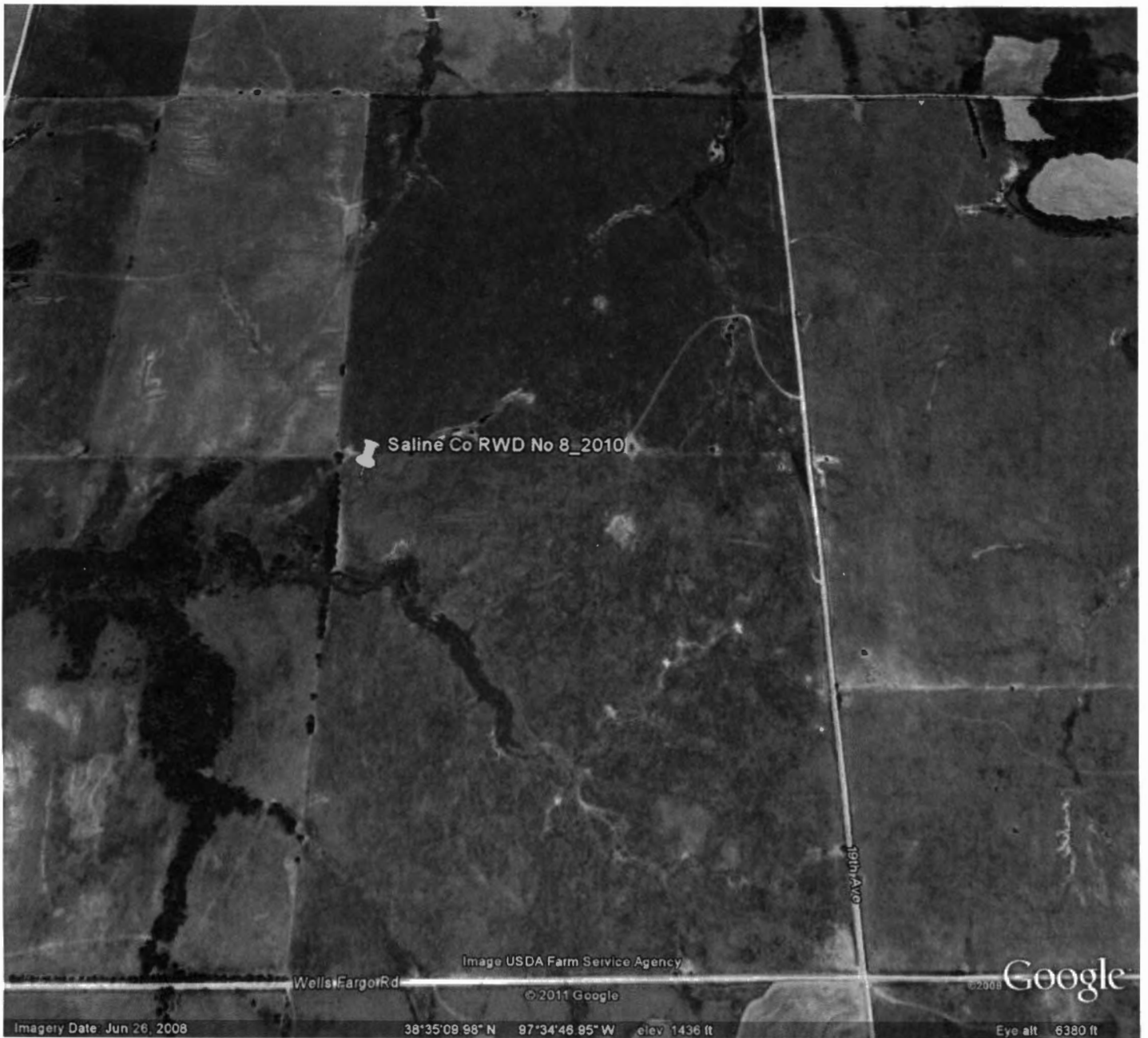
submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3726
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

1 LOCATION OF WATER WELL: County: <u>Saline</u>		Fraction <u>NW 1/4 NW 1/4 SE 1/4</u>	Section Number <u>7</u>	Township Number <u>T 17 S</u>	Range Number <u>R 2 E</u>															
Distance and direction from nearest town or city street address of well if located within city? <u>Approx 4.5 miles East of Lindsburg, 1/2 mile West of 19th Ave & 1/2 mile North of Wells Fargo Road</u>			Global Positioning Systems (decimal degrees, min. of 4 digits) Latitude: <u>38° 35' 12.81" (Approx)</u> Longitude: <u>97° 35' 01.75" (Approx)</u> Elevation: _____ Datum: <u>NAD 27</u> Data Collection Method: _____																	
2 WATER WELL OWNER: RR#, St. Address, Box # : _____ City, State, ZIP Code : _____		3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: N <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">W</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td>-- NW --</td><td>-- NE --</td><td> </td></tr> <tr><td> </td><td>X</td><td> </td></tr> <tr><td>-- SW --</td><td>-- SE --</td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> <div style="margin-left: 10px;">E</div> </div> S							-- NW --	-- NE --			X		-- SW --	-- SE --				
-- NW --	-- NE --																			
	X																			
-- SW --	-- SE --																			
4 DEPTH OF COMPLETED WELL <u>43.25</u> ft.		Depth(s) Groundwater Encountered (1)..... <u>15</u> ft. (2)..... ft. (3)..... ft. WELL'S STATIC WATER LEVEL..... <u>15</u> ft. below land surface measured on mo/day/yr. <u>12/17/10</u> Pump test data: Well water was..... <u>25.96</u>ft. after..... <u>12</u> hours pumping..... <u>56.2</u> gpm Est. Yield..... <u>50</u>gpm: Well water was.....ft. after..... hours pumping..... gpm WELL WATER TO BE USED AS: <input checked="" type="checkbox"/> Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well Was a chemical/bacteriological sample submitted to Department? Yes No <input checked="" type="checkbox"/>; If yes, mo/day/yr Sample submitted..... Water well disinfected? Yes <input checked="" type="checkbox"/> No																		
5 TYPE OF CASING USED: 5 Wrought Iron 8 Concrete tile CASING JOINTS: Glued..... Clamped..... 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded..... <input checked="" type="radio"/> PVC 4 ABS 7 Fiberglass <u>Certa-Lok</u> Threaded..... Blank casing diameter <u>8</u> in. to <u>27.5</u> ft., Diameter..... in. to ft., Diameter..... in. to ft. Casing height above land surface..... in., Weight.....lbs./ft. Wall thickness or gauge No. <u>SOR 17</u> TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel <input checked="" type="radio"/> Stainless Steel 5 Fiberglass 7 PVC 9 ABS 11 Other (Specify) 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: <u>.040 in</u> 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole) 2 Louvered shutter 4 Key punched <input checked="" type="radio"/> Wire wrapped 8 Saw Cut 10 Other (specify) SCREEN-PERFORATED INTERVALS: From..... <u>27.5</u> ft. to <u>43.25</u> ft., From ft. to ft. From..... ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From..... <u>22</u> ft. to <u>43.25</u> ft., From ft. to ft. From..... ft. to ft., From ft. to ft.																				
6 GROUT MATERIAL: 1 Neat cement <input checked="" type="radio"/> Cement grout <input checked="" type="radio"/> Bentonite 4 Other Grout Intervals: From <u>2</u> ft. to <u>20</u> ft., From <u>20</u> ft. to <u>22</u> ft., From ft. to ft. What is the nearest source of possible contamination: 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide Storage <input checked="" type="radio"/> Other (specify below) 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well <u>None known</u> Direction from well? How many feet?																				
FROM TO LITHOLOGIC LOG <u>0 6.5 Clay, lt-gy</u> <u>6.5 10.5 Sand, VF-V, silty, rd-br</u> <u>10.5 12.5 Clay, lt-gy</u> <u>12.5 21.5 Sand, VF-F, s. silty, tan, took water</u> <u>21.5 23.5 " VF-N gy cl stringers</u> <u>23.5 27.5 " VF-F, tan took water</u> <u>27.5 28 Clay, lt-gy</u> <u>28 33.5 Sand, VF-F, sl. silty, tan, took water</u> <u>33.5 42.5 " " tan, clay, took water</u> <u>42.5 44 Clay, lt-gy & shale bl gy</u>			FROM TO PLUGGING INTERVALS 																	
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>12/17/10</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>102</u> This Water Well Record was completed on (mo/day/year) <u>9/1/2011</u> under the business name of <u>LAMME CHRISTENSEN COMPANY</u> by (signature) <u>[Signature]</u>																				
INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, and circle the correct answers. Send top three copies 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 to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. Visit us at http://www.kdhe.state.ks.us/geo/waterwells .																				



Saline Co RWD No 8_2010

19th Ave

Wells Fargo Rd

Image USDA Farm Service Agency

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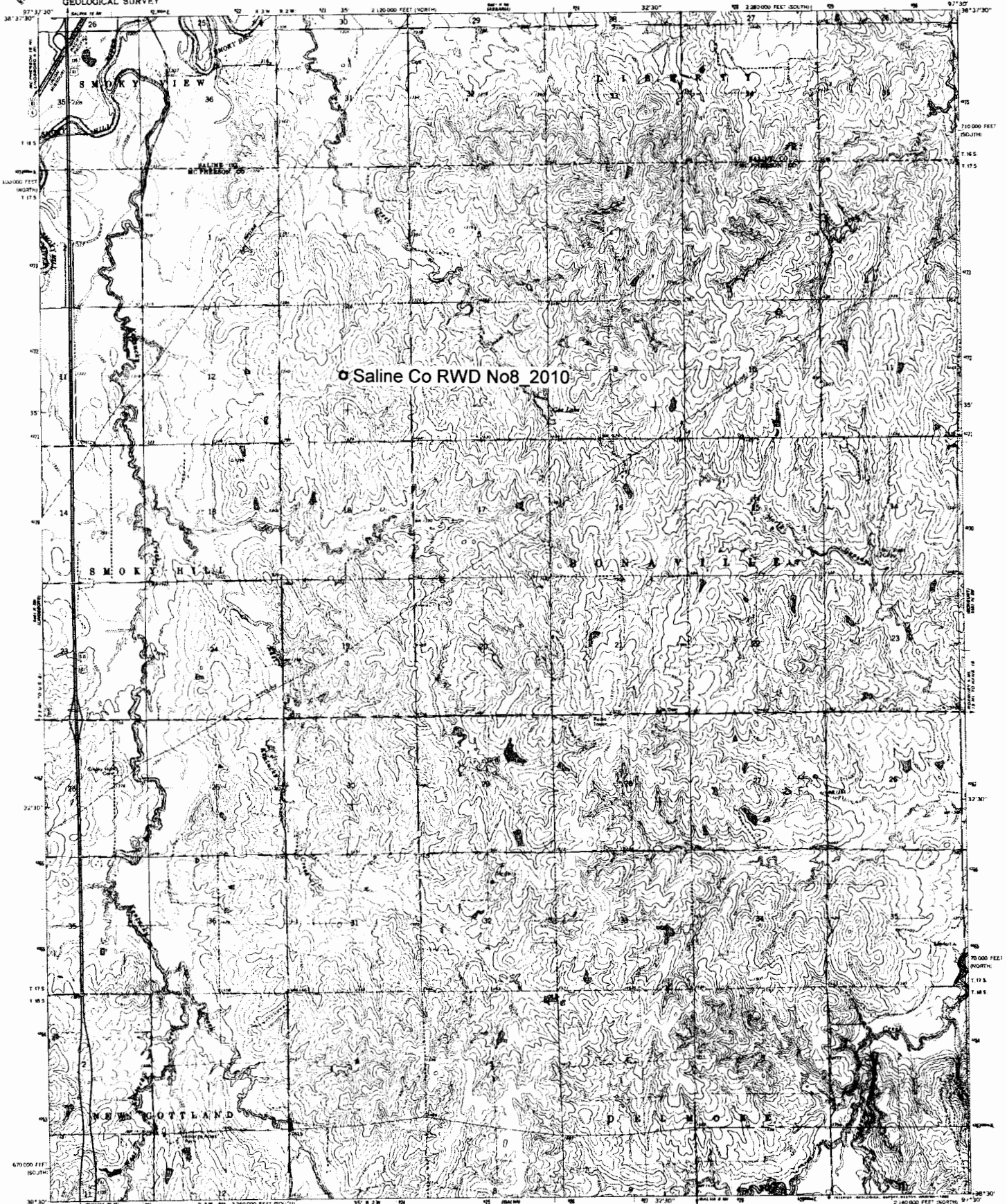
Imagery Date: Jun 26, 2008

38°35'09.98" N 97°34'46.95" W elev 1436 ft

Eye alt 6380 ft

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

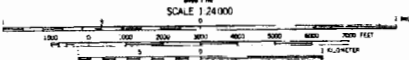
LINDSBORO SE QUADRANGLE
KANSAS
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey
Control by USGS, USGAS, and U.S. Bureau of Reclamation
Topography by photogrammetric methods from aerial
photographs taken 1962. Field checked 1965
Polyconic projection. 1927 North American datum.
10,000 foot grid based on Kansas coordinate system, north and south zones
100-meter Universal Transverse Mercator grid ticks
zone 14 shown in blue

To show on the projected North American Datum 1983
mean sea level projection lines 1 meter north and
20 meters west as shown by dashed corner ticks

Thin red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is unclassified
Persons shown in profile compiled in cooperation with
State of Kansas agencies from aerial photographs taken
1978. Map edited 1979. This information not been checked



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092
AND STATE GEOLOGICAL SURVEY, LAWRENCE, KANSAS 66044
A FOLDER INCLUDING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Heavy-duty Light-duty
Medium-duty Unimproved dirt
Interstate Route U.S. Route State Route

LINDSBORO SE, KANS.
N1610-W790/7.5
PHOTOGRAPHED 1978
DMA 646-11 SE-OFFICE VAP



Paul Bodner
<PBodner@kdheks.gov>
05/06/2010 04:18 PM

To "CAIseman@laynechristensen.com"
<CAIseman@laynechristensen.com>
cc Dennis M Bowman <dbowman@bwrcorp.com>,
"vincentbrad@hotmail.com" <vincentbrad@hotmail.com>,
Dan Clair <dclair@kdheks.gov>, Dave Waldo
bcc
Subject FW: Variance Request - Revised, Project PW004454 Saline
CO RWD # 8

To Chad Iseman'

Chad, the May 6th variance request of the depth of the well and depth of the cement grout is approved.

From: Richard Harper
Sent: Thursday, May 06, 2010 3:45 PM
To: Dan Clair; Paul Bodner
Subject: FW: Variance Request - Revised

From: CAIseman@laynechristensen.com [mailto:CAIseman@laynechristensen.com]
Sent: Thursday, May 06, 2010 3:42 PM
To: Richard Harper
Cc: jseley@laynechristensen.com
Subject: Variance Request - Revised

Richard,

To follow up discussions between Bob Vincent and Paul Bodner we have forwarded a revised request. If possible could you forward this on to Paul?

If further discussion or clarification is needed please contact us.

Thank you.

Chad Iseman
Project Manager
Layne Christensen Company
PH: 316-264-5365



FX: 316-264-1274 20100506153310195.pdf

Layne Christensen Company

1011 W. Harry Street · Wichita, KS 67213 · Ph: 316-264-5365 Fax:316-264-1274

May 6th 2010,

Kansas Department of Health and Environment
Bureau of Water
1000 SW Jackson St., Suite 420
Topeka, KS 66612-1367
PH: 785-296-3565
FX: 785-296-5509
Attn: Richard Harper, LG
Chief, Water Well Unit Geology Section

Re: Variance Request – Grout Surface Seal Depth
Revised per discussions w/ Bob Vincent / Paul Bodner

Please consider this letter and the accompanying information a request for a variance for the water well under construction for Saline County RWD #8. We are requesting this variance on behalf of **Saline RWD #8** who has engaged with us to construct this new 8" water well. Please consider the following information:

Well Location

- Physical location –Approximately 4.5 miles east of Lindsburg, 1/2mile west of 19th Ave, and ½ mile North of Wells Fargo Road.
- Legal Description – SE ¼ of Section 7, McPherson Co. From Center of Section 7, East approximately 80' and south approximately 84'.

Reason for Request

- Actual depth to shale varied from test hole, well TD was reduced from planned 47' to 43.25'. Screened interval changed from 47' - 31.25' to 43.25' - 27.5'. To provide adequate gravel pack cover above screen, bentonite seal was placed from 22' to 20'

KDHE Regulation Reference

- Policies, General Considerations and Design Requirements for Public Water Supply Systems in Kansas, Chapter 4, Section D, article G.1 – 20' annular grout seal reference.

Proposed Construction

1. From TD (43.25') to 22' BGS gravel pack
2. From 22'BGS to 20' bentonite hole plug
3. From 20' BGS to 2' Cement grout.
4. From 2'BGS to 0' native soil.
5. Final elevation, pitless unit and surface pad will be raised to accommodate discharge piping above the grout seal and provide adequate cover. 1.5' buildup will now be approximately 3.5'.

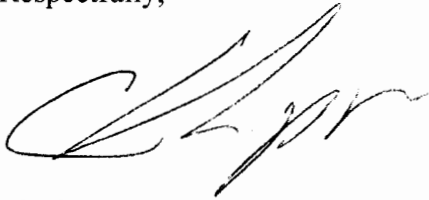


Summary of Change

- Reduce 20' annular seal to 18' - (20' - 2'BGS)

Thank you for your consideration in this matter and please let us know if any additional information is needed.

Respectfully,

A handwritten signature in black ink, appearing to read 'Chad Iseman', written in a cursive style.

Chad Iseman
Project Manager
Layne Christensen Company

