

1 LOCATION OF WATER WELL: County: JOHNSON	Fraction NW 1/4 NW 1/4 SE 1/4	Section Number 24	Township Number 13 S	Range Number 21 E																												
Distance and direction from nearest town or city street address of well if located within city? 3 MILES SOUTHWEST OF CLEARVIEW CITY, KS																																
2 WATER WELL OWNER: SUNFLOWER ARMY AMMUNITION PLANT WELL NO. 167-6 P.O. BOX 549 RR#, St. Address, Box #: 35425 W. 103rd ST. Board of Agriculture, Division of Water Resources City, State, ZIP Code : DESOTO KS 66018 Application Number:																																
3 MARK WELL'S LOCATION WITH AN "X" IN SECTION BOX: N <table border="1" style="width:100%; height:100px; text-align: center; border-collapse: collapse;"><tr><td colspan="2">N W</td><td colspan="2">N E</td></tr><tr><td>W</td><td>24</td><td></td><td>E</td></tr><tr><td colspan="2">S W</td><td colspan="2">S E</td></tr><tr><td colspan="2">S</td><td colspan="2"></td></tr></table>		N W		N E		W	24		E	S W		S E		S				4 DEPTH OF WELL.....53.0.....ft. WELL'S STATIC WATER LEVEL..N/A.....ft. WELL WAS USED AS: <table style="width:100%;"><tr><td>1 Domestic</td><td>5 Public Water Supply</td><td>9 Dewatering</td></tr><tr><td>2 Irrigation</td><td>6 Oil Field Water Supply</td><td>10 Monitoring Well ☒</td></tr><tr><td>3 Feedlot</td><td>7 Lawn and Garden Only</td><td>11 Injection Well</td></tr><tr><td>4 Industrial</td><td>8 Air Conditioning</td><td>12 Other.....</td></tr></table> Was a chemical/bacteriological sample submitted to Department? Yes....No. ☒ . If yes, mo/day/yr sample was submitted..... Water Well Disinfected: Yes..... No. ☒			1 Domestic	5 Public Water Supply	9 Dewatering	2 Irrigation	6 Oil Field Water Supply	10 Monitoring Well ☒	3 Feedlot	7 Lawn and Garden Only	11 Injection Well	4 Industrial	8 Air Conditioning	12 Other.....
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5 TYPE OF BLANK CASING USED: ☒ Steel ☒ 3 RMP (SR) 5 Wrought 7 Fiberglass 9 Other (specify below) 2 PVC 4 ABS 6 Asbestos-Cement 8 Concrete Tile Blank casing diameter.....4.....in. Was casing pulled? Yes..... No. ☒ ... If yes, how much..... Casing height above or below land surface.....0.0.....in.																																
6 GROUT PLUG MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other.. MICRO FINE CEMENT Grout Plug Intervals: From..0...ft. to..53.0...ft., From.....ft. toft., From..... to.....ft. What is the nearest source of possible contamination: <table style="width:100%;"><tr><td>1 Septic tank</td><td>6 Seepage pit</td><td>11 Fuel storage</td><td>16 Other (specify below)</td></tr><tr><td>2 Sewer lines</td><td>7 Pit privy</td><td>12 Fertilizer storage</td><td>..LANDFILL.....</td></tr><tr><td>3 Watertight sewer lines</td><td>8 Sewage lagoon</td><td>13 Insecticide storage</td><td></td></tr><tr><td>4 Lateral lines</td><td>9 Feedyard</td><td>14 Abandoned water well</td><td></td></tr><tr><td>5 Cess Pool</td><td>10 Livestock pens</td><td>15 Oil well/Gas well</td><td></td></tr></table> Direction from well?EAST..... How many feet?200.....					1 Septic tank	6 Seepage pit	11 Fuel storage	16 Other (specify below)	2 Sewer lines	7 Pit privy	12 Fertilizer storage	..LANDFILL.....	3 Watertight sewer lines	8 Sewage lagoon	13 Insecticide storage		4 Lateral lines	9 Feedyard	14 Abandoned water well		5 Cess Pool	10 Livestock pens	15 Oil well/Gas well									
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<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th style="width:10%;">FROM</th><th style="width:10%;">TO</th><th style="width:80%;">PLUGGING MATERIALS</th></tr></thead><tbody><tr><td>0.0'</td><td>53.0'</td><td>MICROFINE CEMENT GROUT</td></tr></tbody></table> Open hole well construction, top of rock at 3', 4" steel casing cemented to 8' depth. Concrete well pad dimensions 6'X6'X2' plus. Pad not yet removed, please refer to attached request for exemption to pad removal requirements. Hand "Jack" well pump removed, microfine cement grout tremied from bottom of well to top of concrete pad. Due to close proximity to road & adjacent well, pad removal may compromise those structures. CF: KDHE, BUREAU OF WATER SFAAP USACE-MRK-EP-GG					FROM	TO	PLUGGING MATERIALS	0.0'	53.0'	MICROFINE CEMENT GROUT																						
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7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was plugged under my jurisdiction and was completed on (mo/day/year).....8/19/95..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. This Water Well Record was completed on (mo/day/year)9/29/95..... under the business name of ...U.S.. ARMY. CORPS. OF. ENGINEERS, KGD.... by (signature) <i>Steve J. Jirousek</i>																																
INSTRUCTIONS: Use typewriter or ball point pen. Please press firmly and print clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Topeka, Kansas 66620-0001. Telephone: 913/296-3565. Send one to Water Well Owner and retain one for your records.																																

27 September 1995

Attachment for SFAAP Well No. 167-6 Well Plugging Record
Request for Exception to Well Pad Removal Requirements

1. Sunflower Army Ammunition Plant, Desoto, Kansas requested the U.S. Army Corps of Engineers (USACE) - Kansas City District to abandon 65 obsolete monitoring wells at that facility. The manner in which one particular well is constructed makes removal of its pad and excavation to a depth of three feet questionable. The Kansas City District is requesting an exception to the Kansas Department of Health and Environment (KDHE) Sections from Article 12 (K.S.A. Supp. 82a-1201 et seq.) which pertain to the plugging of abandoned water wells, cased and uncased test holes, particularly section 28-30-7.

2. The well in question, designated 167-6, was installed by Braden Water Service, Inc. of Independence, Missouri (we have no date of installation). The driller's log indicates top of rock 3' below ground surface, a total drilled depth of 53' and 8' of 4" steel surface casing cemented 5' into bedrock. The remaining boring is open hole. A hand pump-jack was installed to approximately 51.5'. A concrete pad was poured measuring 6' X 6' X 2' (at least 2' of concrete exposed on east side).

3. The 167-6 well pad is located adjacent to: 1) an asphalt road on the west (separated from the pad by less than one foot), 2) a 5' deep ditch on the east (centerline of ditch is approximately 4' east of east side of pad), 3) and an identical well and pad on the south (well pads separated by approximately 3').

4. The pump was removed from well 167-6, and portland cement grout tremmied from bottom of hole to top of well pad on 19 August 1995 by USACE personnel as preliminary abandonment. The boring volume was calculated to be 36 gallons; the actual grout volume placed was 38 gallons. The cured grout surface is smooth and flush with the well pad surface.

5. The soil surrounding the well pad is intact, has a good turf established, and generally slopes away from the pad, especially on the east but only slightly on the west. Field inspection by Kansas City District geologist indicates the well pad is currently providing an excellent level of protection to the boring from surface infiltration and erosion.

6. The Kansas City District Geology Section is concerned that removal of the 167-6 well pad could compromise the integrity of the adjacent asphalt road, the adjacent well and its pad. It is recommended that the existing 167-6 well pad be left intact.

7. The landowner, Sunflower Army Ammunition Plant have no

concerns in regard to leaving the existing well pad intact. The Johnson County Environmental Health Department was contacted by Steve Jirousek, EP-GG on 27 September 1995 and Ms. Betsie Betros, Director of Pollution Control Division indicated to him there were no problems leaving the existing well pad intact.

8. Based on the information provided above, the Kansas City District requests exception from KDHE regulations which would require removal of the pad, excavation to 3' depth (top of rock in this case), and backfill with clayey soil.

9. Please contact Steve Jirousek in the Geology Section, 816-426-3553 if you require additional information. Written response from KDHE regarding the status of our request would be appreciated so that further work, if necessary, can be scheduled.