

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No. _____

1 LOCATION OF WATER WELL:		Fraction		Section Number	Township Number	Range Number																																																
County: <u>Cloud</u>		<u>NW ¼</u>	<u>NW ¼</u>	<u>14</u>	<u>T 8 S</u>	<u>R 3 W</u>																																																
Distance and direction from nearest town or city street address of well if located within city? <u>1612 Deer Road, Delphos</u>				Global Positioning System (decimal degrees, min. of 4 digits)																																																		
2 WATER WELL OWNER: <u>NuStar Pipeline Operating Partnership, L.P.</u> RR#, St. Address, Box # : <u>2137 W Old Highway 40</u> City, State, ZIP Code : <u>Salina, KS</u>				Latitude: _____																																																		
				Longitude: _____																																																		
				Elevation: <u>99.58</u>																																																		
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: <div style="text-align: center;"> </div>				4 DEPTH OF COMPLETED WELL <u>25</u> ft. MW1 Depth(s) Groundwater Encountered 1 _____ ft. 2 _____ ft. 3 _____ ft. WELL'S STATIC WATER LEVEL <u>13.12</u> ft. below land surface measured on mo/day/yr <u>7/22/08</u> Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feed lot 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) <u>10</u> Monitoring well																																																		
Was a chemical/bacteriological sample submitted to Department? Yes _____ No <u>X</u> ; If yes, mo/day/yr Sample was submitted _____ Water Well Disinfected? Yes _____ No <u>X</u>																																																						
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 _____ <u>2</u> PVC 4 ABS 7 Fiberglass Threaded <u>X</u> Blank casing diameter <u>2</u> in. to <u>10</u> ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft. Casing height below land surface <u>flushmount</u> ft., Weight _____ lbs./ft. Wall thickness or gauge No. _____ TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless steel 5 Fiberglass <u>7</u> 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: 1 Continuous slot <u>3</u> Mill slot 5 Gauze wrapped 7 Torch cut 9 Drilled holes 11 None (open hole) 2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw Cut 10 Other (specify) _____ SCREEN-PERFORATED INTERVALS: From <u>10</u> ft. to <u>25</u> ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft. GRAVEL PACK INTERVALS: From <u>9</u> ft. to <u>25</u> ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft.																																																						
6 GROUT MATERIAL: 1 Neat cement 2 Cement grout <u>3</u> Bentonite <u>4</u> Other <u>Concrete: 0-2 ft</u> Grout Intervals From <u>2</u> ft. to <u>9</u> ft. From _____ ft. to _____ 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 16 Other (specify below) 2 Sewer lines 5 Cess pool 8 Sewage lagoon <u>11</u> Fuel storage 14 Abandoned water well 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 15 Oil well/ gas well Direction from well? _____ How many feet? _____																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>FROM</th> <th>TO</th> <th>LITHOLOGIC LOG</th> <th>FROM</th> <th>TO</th> <th>LITHOLOGIC LOG (continued)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>Gravel</td> <td>14</td> <td>15</td> <td>Clay with little silt, some black staining, brown, very moist to wet, blocky</td> </tr> <tr> <td>1</td> <td>3</td> <td>Silty clay, brown, some gravel pieces, moist</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>5</td> <td>Silty clay, brown, moist</td> <td>15</td> <td>17</td> <td>Clay with silt, brown with black/yellow staining, moist</td> </tr> <tr> <td>6</td> <td>8</td> <td>Very silty clay, brown/black, firm, slightly moist</td> <td>17</td> <td></td> <td>Very fine grained sand, grey with orange/black staining, wet, very firm, tough drilling, some clay</td> </tr> <tr> <td>8</td> <td>10</td> <td>Clay, very stiff, slightly moist, dark brown</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>12</td> <td>Clay with little silt, some black staining, brown, very moist to wet, blocky</td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>14</td> <td>Clay with little silt, some black staining, brown, very moist to wet, blocky</td> <td></td> <td></td> <td>Flushmount waiver from BOW</td> </tr> </tbody> </table>							FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG (continued)	0	1	Gravel	14	15	Clay with little silt, some black staining, brown, very moist to wet, blocky	1	3	Silty clay, brown, some gravel pieces, moist				3	5	Silty clay, brown, moist	15	17	Clay with silt, brown with black/yellow staining, moist	6	8	Very silty clay, brown/black, firm, slightly moist	17		Very fine grained sand, grey with orange/black staining, wet, very firm, tough drilling, some clay	8	10	Clay, very stiff, slightly moist, dark brown				10	12	Clay with little silt, some black staining, brown, very moist to wet, blocky				12	14	Clay with little silt, some black staining, brown, very moist to wet, blocky			Flushmount waiver from BOW
FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG (continued)																																																	
0	1	Gravel	14	15	Clay with little silt, some black staining, brown, very moist to wet, blocky																																																	
1	3	Silty clay, brown, some gravel pieces, moist																																																				
3	5	Silty clay, brown, moist	15	17	Clay with silt, brown with black/yellow staining, moist																																																	
6	8	Very silty clay, brown/black, firm, slightly moist	17		Very fine grained sand, grey with orange/black staining, wet, very firm, tough drilling, some clay																																																	
8	10	Clay, very stiff, slightly moist, dark brown																																																				
10	12	Clay with little silt, some black staining, brown, very moist to wet, blocky																																																				
12	14	Clay with little silt, some black staining, brown, very moist to wet, blocky			Flushmount waiver from BOW																																																	
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was <u>1</u> constructed, <u>2</u> reconstructed, or <u>3</u> plugged under my jurisdiction and was completed on (mo/day/year) <u>7/21/08</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>757</u> . This Water Well Record was completed on (mo/day/year) <u>8/14/08</u> under the business name of <u>Larsen & Associates, Inc.</u> by (signature) _____																																																						
INSTRUCTIONS: Please fill in blanks or 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.kdheks.gov/waterwell .																																																						