

Clarke Well and Equipment, Inc.

WATER RELATED PROJECTS – Environmental – Industrial – Municipal – Agricultural

AIRPORT INDUSTRIAL COMPLEX - 8822 3rd STREET - GREAT BEND, KS 67530-9766
Phone 620-793-8493 Fax 620-793-8340 info@clarkewell.com

Frank L Hart, Inc.

Well Information

- See attached WWC-5 records for well construction and dates drilled.
- Original pump designs were for 900-1000 GPM but the wells likely won't produce that now. No recent testing has been done.

Pump Information

- NE 14-24S-16W
 - o 1998- New Peerless 12LD-3 stage bowls. Designed for 950 GPM. Installed 80' of 8" used oil lube column, Peerless discharge head, and Deran 60HP 6:5 geardrive from an old well in SW 12-24-16W.
 - o 1999- Installed new inner column.
 - o 2008- Repaired broken headshaft.
- NW 12-24S-16W
 - o 2008- New Goulds 12CMC-3 stage bowls. Designed for 900 GPM. Installed 80' of new 8" oil lube column. Installed used Berkeley discharge head from previous well. Installed used Randolph 80HP 6:5 geardrive.
 - o 2009- Pulled and reset pump to bail well. Extended tail pipe from 6' to 11'. Well would produce 800 GPM at that time but started surging at 900 GPM.
- SW 12-24S-16W
 - o 1993- New Peerless 12MB-4 stage bowls. Designed for 1000 GPM. Installed 70' of 10" rebuilt oil lube column, Berkeley discharge head, and Amarillo 50HP 6:5 geardrive from previous flood well at this location.

1/2

260 9211
WATER WELL RECORD**Form WWC-5**

Division of Water Resources; App. No.

23,303

1 LOCATION OF WATER WELL: County: Edwards		Fraction NW 1/4 SW 1/4 NW 1/4	Section Number 12	Township Number T 24 S	Range Number R 16 E (W)																																																																								
Distance and direction from nearest town or city street address of well if located within city? Approximately 2 miles north and 3 miles east of Belpre			Global Positioning Systems (decimal degrees, min. of 4 digits) Latitude: 37.981492 Longitude: -99.040199 Elevation: Unknown Datum: NAD83 Data Collection Method: WAAS GPS Unit																																																																										
2 WATER WELL OWNER: Frank L. Hart, Inc. RR#, St. Address, Box # : c/o David J. Youtsey, Sr. City, State, ZIP Code : 1402 Austin Circle Salina, KS 67401																																																																													
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: N <table border="1" style="margin: auto; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px; text-align: center;">X</td><td style="width: 20px; height: 20px;"></td></tr><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> S	X				4 DEPTH OF COMPLETED WELL 100 ft. Depth(s) Groundwater Encountered (1) _____ ft. (2) _____ ft. (3) _____ ft. WELL'S STATIC WATER LEVEL 28.30 ft. below land surface measured on mo/day/yr. 11-18-08 Pump test data: Well water was Not checked ft. after _____ hours pumping _____ gpm Est. Yield Unknown 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 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 ☒ If yes, mo/day/yr _____ Sample was submitted _____ Water well disinfected? Yes ☒ No _____																																																																								
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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 _____ (2) PVC 4 ABS 7 Fiberglass _____ Threaded _____ Blank casing diameter 16 in. to 73 ft., Diameter _____ in. to _____ ft., Diameter _____ in. to _____ ft. Casing height above land surface 24 in., weight 19.75 lbs./ft. Wall thickness or gauge No. .616 TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel (3) 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: (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 6 Wire wrapped 8 Saw Cut 10 Other (Specify) _____ SCREEN-PERFORATED INTERVALS: From 73 ft. to 98 ft., From _____ ft. to _____ ft. From _____ ft. to _____ ft., From _____ ft. to _____ ft. GRAVEL PACK INTERVALS: From 20 ft. to 98 ft., From _____ ft. to _____ ft. From _____ ft. to _____ ft., From _____ ft. to _____ ft.																																																																													
6 GROUT MATERIAL: 1 Neat Cement (2) Cement grout (3) Bentonite 4 Other _____ Grout Intervals: From 0 ft. to 2 ft., From 2 ft. to 20 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 11 Fuel storage 14 Abandoned water well _____ 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well _____ None known Direction from well? _____ How many feet? _____																																																																													
<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:40%;">LITHOLOGIC LOG</th><th style="width:10%;">FROM</th><th style="width:10%;">TO</th><th style="width:20%;">PLUGGING INTERVALS</th></tr></thead><tbody><tr><td>0</td><td>7</td><td>Topsoil, clay, brown</td><td>70</td><td>76</td><td>Gravel</td></tr><tr><td>7</td><td>23</td><td>Sand, soft, sandstone</td><td>76</td><td>78</td><td>Clay, yellow</td></tr><tr><td>23</td><td>33</td><td>Clay, brown, gray</td><td>78</td><td>85</td><td>Gravel</td></tr><tr><td>33</td><td>37</td><td>Sandstone, soft</td><td>85</td><td>86</td><td>Clay, yellow</td></tr><tr><td>37</td><td>44</td><td>Sand and gravel</td><td>86</td><td>90</td><td>Gravel</td></tr><tr><td>44</td><td>46</td><td>Clay, gray</td><td>90</td><td>92</td><td>Cemented gravel</td></tr><tr><td>46</td><td>53</td><td>Gravel, with clay streaks, yellow</td><td>92</td><td>98</td><td>Gravel</td></tr><tr><td>53</td><td>55</td><td>Sand, fine</td><td>98</td><td>99</td><td>Clay, gray</td></tr><tr><td>55</td><td>57</td><td>Gravel</td><td></td><td></td><td></td></tr><tr><td>57</td><td>67</td><td>Sandstone, soft</td><td></td><td></td><td></td></tr><tr><td>67</td><td>70</td><td>Clay, yellow</td><td></td><td></td><td></td></tr></tbody></table>						FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS	0	7	Topsoil, clay, brown	70	76	Gravel	7	23	Sand, soft, sandstone	76	78	Clay, yellow	23	33	Clay, brown, gray	78	85	Gravel	33	37	Sandstone, soft	85	86	Clay, yellow	37	44	Sand and gravel	86	90	Gravel	44	46	Clay, gray	90	92	Cemented gravel	46	53	Gravel, with clay streaks, yellow	92	98	Gravel	53	55	Sand, fine	98	99	Clay, gray	55	57	Gravel				57	67	Sandstone, soft				67	70	Clay, yellow			
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7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) <u>constructed</u> (2) reconstructed (3) plugged under my jurisdiction and was completed on (mo/day/year) 11-18-08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 185 This Water Well Record was completed on (mo/day/year) 11-19-08 Under the business name of Clarke Well & Equipment, Inc. by (signature) <i>[Signature]</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, 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.																																																																													

1 LOCATION OF WATER WELL:		Fraction	Section Number		Township Number		Range Number	
County: Edwards		1/4 NC 1/4 SW 1/4	12		T 24 S		R 16 EW	
Distance and direction from nearest town or city street address of well if located within city?								
Approximately 3 miles east and 1 1/2 miles north of Belpre								
2 WATER WELL OWNER:		Frank L. Hart, Inc.						
RR#, St. Address, Box # :		c/o David J. Youtsey, Sr.						
City, State, ZIP Code :		2501 N. 80th St. Kansas City, KS 66109						
		Board of Agriculture, Division of Water Resources Application Number: 15,952 & 18,278						
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:		4 DEPTH OF COMPLETED WELL: 88 ft. ELEVATION: unknown						
		Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.						
		WELL'S STATIC WATER LEVEL: 26 ft. below land surface measured on mo/day/yr 4-16-93						
		Pump test data: Well water was not ch'd. ft. after hours pumping gpm						
		Est. Yield unknown gpm: Well water was ft. after hours pumping gpm						
		Bore Hole Diameter: 24 in. to 88 ft. and in. to ft.						
5 TYPE OF BLANK 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 X						
2 PVC 4 ABS		7 Fiberglass Threaded						
Blank casing diameter 16 in. to 47 ft. Dia. in. to ft. Dia. in. to ft.								
Casing height above land surface 12 in., weight 36.87 lbs./ft. Wall thickness or gauge No. 214								
TYPE OF SCREEN OR PERFORATION MATERIAL:		7 PVC 10 Asbestos-cement						
1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify)								
2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)								
SCREEN OR PERFORATION OPENINGS ARE:		5 Gauzed wrapped 8 Saw cut 11 None (open hole)						
1 Continuous slot 3 Mill slot 6 Wire wrapped 9 Drilled holes								
2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) Bridge Slot								
SCREEN-PERFORATED INTERVALS: From 47 ft. to 87 ft. From ft. to ft. From ft. to ft.								
GRAVEL PACK INTERVALS: From 20 ft. to 87 ft. From ft. to ft. From ft. to ft.								
6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other								
Grout Intervals: From 0 ft. to 20 ft. From ft. to ft. From ft. to ft.								
What is the nearest source of possible contamination:		10 Livestock pens 14 Abandoned water well						
1 Septic tank 4 Lateral lines 7 Pit privy 11 Fuel storage 15 Oil well/Gas well								
2 Sewer lines 5 Cess pool 8 Sewage lagoon 12 Fertilizer storage 16 Other (specify below)								
3 Watertight sewer lines 6 Seepage pit 9 Feedyard 13 Insecticide storage None known								
Direction from well?		How many feet?						
FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS			
0	3	Topsoil						
3	12	Clay, tan, sandy						
12	23	Clay, tan and greenish, sandy						
23	27	Clay, brown, caliche						
27	33	Clay, brown, sandy						
33	42	Clay, tan and gray						
42	54	Sand and gravel, fine, medium, thin clay streaks						
54	55	Clay, gray						
55	80	Sand and gravel, fine, medium						
80	84	Sand and gravel, medium, coarse						
84	86	Sand and gravel, fine, medium						
86	88	Clay, gray						
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) 4-16-93 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 185 This Water Well Record was completed on (mo/day/yr) 5-5-93 under the business name of Clarke Well & Equipment, Inc. by (signature) [Signature]								
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