# Clarke Well and Equipment, Inc.

WATER RELATED PROJECTS - Environmental - Industrial - Municipal - Agricultural

AIRPORT INDUSTRIAL COMPLEX - 8822 3<sup>rd</sup> 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

- 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. Installedused 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

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.

			WATER	WELL RECORD	Form WWC-5	KSA 82a	-1212		
	ON OF WAT		Fraction		Sec	tion Number			Range Number
	Edwards		1/4	NC 1/4 NE	1/4	14	т 24	S	R 16
			=	dress of well if located	-				
Appro	oximatel	y 3 miles	east and 1	mile north of	Belpre				
2 WATE	R WELL OW	NER:	Frank L.	Hart, Inc.					
RR#, St.	Address, Box	×#:	2501 N.	80th St.			Board of A	griculture, [	Division of Water Resource
City, State	, ZIP Code	:	Kansas (	City, KS 6610	)9		Application	Number:	37,415
3 LOCATI	E WELL'S L	OCATION WITH		OMPLETED WELL		# ELEVA	TION: unk	nown	
☐ AN "X"	IN SECTIO	BOX:							· · · · · · · · · · · · · · · · · · ·
÷ 'Γ	<u> </u>	<b>)</b>	MELL'S STATIO	MATERIEUCOUNTEREC 1.	17 4 5	ة .II. ، II. استاست	<u> </u>	π. <b>3</b>	7-22-98
1 1	- 1		WELLS STATIC	WATER LEVEL	. ÷./ π. α	elow land sur	tace measured on	mo/day/yr	
i  -	NW	Nt							mping gpm
1 1	ŀ	ī	Est. Yield .un.Kr	10W13gpm: Well wate	rwas	ft. a	fter	hours pu	mping gpm
¥ w	1	F			1.10		and	in.	to
₹ "	!	!   `	WELL WATER TO		5 Public wate		8 Air conditioning		
î l	- sw	:	1 Domestic	3 Feedlot	6 Oil field wa	ter supply	9 Dewatering	12	Other (Specify below)
	347	3	2 Irrigation	4 Industrial	7 Lawn and g	arden only	10 Monitoring well	,	
1 1	i		Was a chemical/ba	acteriological sample s	ubmitted to De	partment? Yo	esNo	X; If yes,	mo/day/yr sample was sub
Ι -	\$		mitted	- ,		-	ter Well Disinfecte	•	·
5 TYPE C	OF BLANK C	ASING USED:		5 Wrought iron	8 Concre				iX Clamped
1 Ste	-	3 RMP (SI		6 Asbestos-Cement		(specify below			ed
2 PV		4 ABS	• •	7 Fiberglass			•		ided
Plank soci	na diameter	16	in to 69	# Dis	in to		# Dia	111166	ided
Casina bai	ing diameter	and acodesa	12	in., weight 16					in. to ft.
				in., weight					
		R PERFORATIO			7 <u>PV</u>			estos-ceme	
1 Ste	eel	3 Stainless	s steel	5 Fiberglass		IP (SR)			
2 Bra	ass	4 Galvaniz	ed steel	6 Concrete tile	9 AB	S	12 Nor	e used (op	en hole)
SCREEN (	or Perfor	RATION OPENIN	GS ARE:	5 Gauze	d wrapped		8 Saw cut		11 None (open hole)
1 Co	ontinuous slo	t 3 <u>M</u>	ill slot	6 Wire v	vrapped		9 Drilled holes		
2 Lo	uvered shutt	er 4 Ke	ey punched	7 Torch	cut		10 Other (specify	)	
SCREEN-	PERFORATE	ED INTERVALS:	From	69 ft. to	109	ft., Froi	n	ft. to	o
									o
C	GRAVEL PAG	CK INTERVALS:	From	<u>20</u> ft. to	110	ft From	m	ft. to	o
			From						
6 GROUT	MATERIAL	: 1 Neat o	cement 2	Cement grout					
Grout Inter									ft. to
		urce of possible					tock pens		pandoned water well
		4 Later		7 Dit priva			•		
	ptic tank			7 Pit privy		11 Fuel :	· ·		il well/Gas well
		5 Cess	•	8 Sewage lago	on		zer storage		ther (specify below) ne known
	•	er lines 6 Seep	age pit	9 Feedyard			ticide storage		
Direction f	<del>,</del>				1	How mai	ny feet?		
FROM	TO		LITHOLOGIC L	UG	FROM	то	PL	ugging i	NIERVALS
0	2	Topsoil			ļ				
2	12	Clay, bro	own						
12	29		own, sandy						
29	50	Sand and	gravel, fir	ne, medium					
50	90	Sand and	gravel, fir	ne, medium,					
		some coar							
90	98		gravel, fir	ne. medium.			·		
	70	coaree	loose, thin	clay streaks					
		at 94' ar		Jan, Gercand					
~~	100			- a	-				
98	108		gravel, fin	ie, meaium	+				
108	110	Clay, bro	own		-				
7 00:-	DACTORIO (	ND / ANDOWNER	DIS CERTIFICATIO	M. This					an man indication of the
									er my jurisdiction and was
completed	on (mo/day/	year)	7.–22–98			and this reco	rd is true to the be	st of my_kng	wledge and belief. Kansas
completed Water Wei	on (mo/day/ I Contractor's	year)		This Water We	ell Record wa	and this reco s completed o	rd is true to the be on (mo/day/yr)	st of my_kng	
 completed Water Wel	on (mo/day/	year)			ell Record wa	and this reco	rd is true to the be on (mo/day/yr)	st of my_kng	wledge and belief. Kansas

260 WATER	9211 R WELL	RECORD	Form WWC-	5	Division	of Water	Resources; App. No.	23,303
	TION O	WATER WELL:	Fraction NW 1/4 SW 1/4		Section N 12		1 = <b>^</b> .	r Range Number R 16 E W
Distan	ice and dire	ction from nearest town or	city street address of well if lorth and 3 miles east of Be	cated elpre	Global Po Latitude:	sitioning 37.9	Systems (decimal de 81492	egrees, min. of 4 digits)
RR#,	St. Addre	Code: Frank L. Hass, Box # 1402 Austin Salina, KS	Youtsey, Sr. Circle	]	Elevation Datum:	ı: Unl NAD8		PS Unit
LOC.		Depth(s) Ground WELL'S STATI Pump te Est. Yield Unknow WELL WATER  1 Domestic 2 Irrigation Was a chemical	OMPLETED WELL  Iwater Encountered (1) C WATER LEVEL 28. est data: Well water was vongpm: Well water was 5 TO BE USED AS: 5 Pul 3 Feedlot 6 Oil fie 4 Industrial 7 Dome  Transport of the control of the c	30 ft.  St checked  blic water seld water suestic (lawn a	ft.  below lan  ft. after  ft. after  upply  pply  garden)  Departmen	ft. (2) ad surface  8 Air 9 Dev 10 Mont? Yes	ft. (3) re measured on mo/d hours pumping hours pumping conditioning 11 vatering 12 nitoring well	ft, ay/yr_11-18-08 gpm gpm Injection well Other (Specify below)
Blank ca Casing h TYPE O	Steel 3 PVC 4 sing diameteight above F SCREET Steel ( Brass N OR PER Continuou	RMP (SR) 6 As ABS 7 File ter 16 in. to e land surface 26 N OR PERFORATION 1 3 Stainless Steel 4 Galvanized Steel FORATION OPENING s slot 3 Mill slot shutter 4 Key punched	73 ft., Diameter 4 in., weight 19 MATERIAL: 5 Fiberglass 7 PVC 6 Concrete tile 8 RM (5)	er (specify	ABS Asbestos-  9 Dr 10 Ott	ft. all thich Cement illed hole	Welded Thread , Diameter cness or gauge No.  11 Other (Specify) 12 None used (oper es 11 None (open heify)	in. to ft616  n hole)
Grout In What is to 1 Seption 2 Sewee	of MATE ntervals: the nearest so tank	From 0 ft. ource of possible contamir 4 Lateral lines 5 Cess pool	to 2 ft., From lation: 7 Pit privy 1 8 Sewage lagoon 1	ntonite 4	Other  It. to  x pens  age	20 13 Inse		
	from wel	<u> ?                                    </u>	<u>l</u>	How many	feet?			
FROM	TO	LITHOLOG	GIC LOG	FROM	TO		PLUGGING IN	ΓERVALS
0	7	Topsoil, clay, brown		70	76	Grave		
23	23 33	Sand, soft, sandstor	<u> </u>	76 78	78 85	Grave	yellow	
33	37	Clay, brown, gray Sandstone, soft		85	86		yellow	
37	44	Sandstone, sort	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	86	90	Grave		
44	46	Clay, gray		90	92		ented gravel	
46	53	Gravel, with clay stre	eaks, vellow	92	98	Grave		
53	55	Sand, fine	June, yenev	98	99	Clay,		
55	57	Gravel				,	<u> </u>	
57	67	Sandstone, soft						
67	70	Clay, yellow						
Kansas V	Vater Well	and was completed on (m Contractor's License No. Came of Clarke Well & E	185 This Water	Well Recor				tructed (3) plugged reledge and belief. 11-19-08
INSTRUC	TIONS: Use	typewriter or ball point pen.	PLEASE PRESS FIRMLY and PRINT	clearly. Plea	se fill in bla	inks, unde	rline or circle the correct	answers. Send top three
copies to K	Kansas Depar	ment of Health and Environm	ent, Bureau of Water, Geology Se R and retain one for your records.	ction, 1000 S	W Jackson	St., Suite	420, Topeka, Kansas 666	12-1367. Telephone

III I OCATI		<del></del>		WELL RECORD	Form WWC-5	KSA 82a	1-1212		· · · · · · · · · · · · · · · · · · ·
<b>—</b>		TER WELL:	Fraction			ction Number	Township	Number	Range Number
County:				NC 1/4 SW		12	T 2	4 s	R 16 E(W)
1			-	dress of well if located	<del>-</del>				_
				miles north o	f Belpre				
2 WATE	r well ow	/NER: Fr,a:	nk L. Hart	, Inc.					
RR#, St.	Address, Bo	x # : C/O	David J.	Youtsey, Sr.			Board (	of Agriculture, I	Division of Water Resources
City, State	, ZIP Code	: <u>Z</u> 30 : Kan	l N. 80th sas City,	KS 66109			Applica	tion Number: 1	5,952 & 18,278
		OCATION WITH 4	DEPTH OF CO	MPLETED WELL	88	# FLEVA	TION: 11D	known	.,
AN "X"	IN SECTIO								
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	NW	NE							mping gpm
	1								mping gpm
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Σ	! !	!   W	ELL WATER TO		5 Public water		8 Air condition	•	•
l .	SW	SE	1 Domestic						Other (Specify below)
11 1	ī	1	2 Irrigation	4 Industrial	7 Lawn and o	garden only	10 Monitoring	well	
ll L	1	\	/as a chemical/ba	acteriological sample s	ubmitted to D	epartment? Y	esNo	x; If yes,	, mo/day/yr sample was sub-
		mi	itted			Wa	iter Well Disinfe	ected? Yes	No x
5 TYPE	OF BLANK (	CASING USED:		5 Wrought iron	8 Concre	ete tile	CASING	JOINTS: Glued	d Clamped
1 St	eel	3 RMP (SR)		6 Asbestos-Cement	9 Other	(specify below	w)	Weld	ed x
2 P\	/C	4 ABS					, 	Threa	aded
Blank casi	ing diameter	16in.		. ft Dia	in to		ft Dia		in. to ft.
									o 214
		R PERFORATION N		in, worgin	7 PV			Asbestos-ceme	
1 St		3 Stainless st		5 Fiberglass		IP (SR)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2 Br	<del></del>	4 Galvanized		6 Concrete tile		, ,			
					9 AB	5		None used (op	· ·
		RATION OPENINGS			d wrapped		8 Saw cut		11 None (open hole)
	ontinuous slo			6 Wire v			9 Drilled hol		1 01
1	uvered shutt	•		7 Torch		,			lge Slot
SCREEN-	PERFORATI	ED INTERVALS:							o
						ft., Fro			o
1 /									
١ ،	GRAVEL PA	CK INTERVALS:	From	20 ft. to					o
<u> </u>	GRAVEL PA	CK INTERVALS:	From				m		
	T MATERIAL	.: 1 Neat cen	From 2	ft. to Cement grout	3 Bento	ft., Fro	m Other	ft. t	o ft.
	T MATERIAL	.: 1 Neat cen	From 2	ft. to Cement grout	3 Bento	ft., Fro	m Other	ft. t	o ft.
6 GROUT	T MATERIAL	.: 1 Neat cen	From ment 2 to 20	ft. to Cement grout	3 Bento	ft., Fro	m Other	ft. t	o ft.
6 GROUT Grout Inte What is th	T MATERIAL	.: 1 Neat cen	From ment 2 to20	ft. to Cement grout	3 Bento	ft., Fro	m Other ft., From tock pens	ft. t	o ft
6 GROUT Grout Inte What is th	T MATERIAL rvals: From	.: 1 Neat cen	From nent 2 to20 intamination:	ft. to  Cement grout  ft., From 7 Pit privy	3 Bento	ft., Fro nite 4 to 10 Lives 11 Fuel	m Other ft., From tock pens	ft. t	o ft
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6 GROUT Grout Inte What is th 1 Se 2 Se 3 W. Direction f FROM 0 3 12 23 27 33 42 54 55	r MATERIAL rvals: From le nearest so eptic tank ewer lines atertight sew from well?  TO 3 12 23 27 33 42 54 55 80 84	Topsoil Clay, tan, Clay, tan a Clay, brown Clay, tan a Sand and gr thin clay s Sand and gr Sand and gr Sand and gr	rom  ment 2  to20  intamination:  lines  pol e pit  LITHOLOGIC Lo  sandy and greenis a, caliche a, sandy and gray cavel, fine streaks  cavel, fine cavel, medi	ft. to  Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  OG  Sh, sandy  e, medium,  e, medium  Lum, coarse	3 Bento	ft., Fro nite 4 to	m Other ft., From tock pens storage izer storage cticide storage	ft. t 14 A 15 O 16 O None	o ft.  . ft. to
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GROUT Grout Inte What is th 1 Se 2 Se 3 W Direction 1 FROM 0 3 12 23 27 33 42 54 55 80 84	r MATERIAL rvals: From le nearest so eptic tank ewer lines atertight sew from well?  TO  3  12  23  27  33  42  54  55  80  84  86	Topsoil Clay, tan, Clay, tan a Clay, brown Clay, tan a Sand and gr thin clay s Clay, gray Sand and gr	rom  ment 2  to20  intamination:  lines  pol e pit  LITHOLOGIC Lo  sandy and greenis a, caliche a, sandy and gray cavel, fine streaks  cavel, fine cavel, medi	ft. to  Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  OG  Sh, sandy  e, medium,  e, medium  Lum, coarse	3 Bento	ft., Fro nite 4 to	m Other ft., From tock pens storage izer storage cticide storage	ft. t 14 A 15 O 16 O None	o ft.  . ft. to
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GROUT Grout Inte What is th  1 Se 2 Se 3 W. Direction f FROM  0 3 12 23 27 33 42  54 55 80 84 86	T MATERIAL rvals: From le nearest so eptic tank ewer lines atertight sew from well?  TO 3 12 23 27 33 42 54 55 80 84 86 88 RACTOR'S Con (mo/day/	Topsoil Clay, tan, Clay, tan a Clay, brown Clay, tan a Sand and gr thin clay s Clay, gray Sand and gr Sand and gr Sand and gr Sand and gr Clay, gray Sand and gr Clay, gray Sand and gr Clay, gray Sand and gr Sand and gr Clay, gray Sand and gr Sand and gr	rom ment 2 to20 intamination: lines cool e pit  LITHOLOGIC Lo sandy and greenis a, caliche a, sandy and gray cavel, fine streaks cavel, fine cavel, medicavel, fine cavel, fine cavel, fine cavel, fine	ft. to  Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  OG  Sh, sandy  e, medium,  um, coarse e, medium  N: This water well wa	3 Bento ft.	ft., Fro nite 4 to	Other Other  It., From tock pens storage izer storage iticide storage my feet?	ft. t  14 A  15 O  16 O  None  PLUGGING II  3) plugged und best of my known	o ft.  . ft. to
GROUT Grout Inte What is th  1 Se 2 Se 3 W Direction f FROM 0 3 12 23 27 33 42  54 55 80 84 86	T MATERIAL rvals: From le nearest so eptic tank ewer lines atertight sew from well?  TO  3  12  23  27  33  42  54  55  80  84  86  88  RACTOR'S Con (mo/day/8) Contractor'	Topsoil Clay, tan, Clay, tan a Clay, brown Clay, tan a Sand and gr thin clay s Clay, gray Sand and gr	rom  ment 2  to 20 intamination: lines  pol e pit  LITHOLOGIC Lo sandy ind greenis i, caliche i, sandy ind gray savel, fine streaks  cavel, fine cavel, medicavel, fine cavel, fine	ft. to  Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  OG  sh, sandy  e, medium,  ium, coarse e, medium  ium, toarse e, medium  N: This water well wa	3 Bento ft.	ft., Fro nite 4 to	onstructed, or (and is true to the on (mo/dayyr)	ft. t  14 A  15 O  16 O  None  PLUGGING II  3) plugged und best of my known	o ft.  . ft. to
GROUT Grout Inte What is th  1 Se 2 Se 3 W. Direction 1 FROM 0 3 12 23 27 33 42  54 55 80 84 86  7 CONTF completed Water Well under the	T MATERIAL rvals: From le nearest so eptic tank ewer lines atertight sew from well?  TO  3  12  23  27  33  42  54  55  80  84  86  88  RACTOR'S (on (mo/day/business name)	Topsoil Clay, tan, Clay, tan a Clay, brown Clay, brown Clay, tan a Sand and gr thin clay s Clay, gray Sand and gr Sand and gr Sand and gr Clay, gray Sand and gr Sand and gr Clay, gray Sand and gr Sand and gr Sand and gr Sand and gr Clay, gray Clay, gray Sand and gr Sand and gr Sand and gr Sand and gr Clay, gray Clay,	rent 2 to 20 intamination: lines col e pit  LITHOLOGIC Lo sandy ind greenis i, caliche i, sandy ind gray ravel, fine streaks  avel, fine avel, medi avel, fine avel, fine cavel, fine avel, fine avel, sand avel, fine avel, medi avel, fine avel, fine avel, fine avel, fine avel, fine avel, fine	ft. to  Cement grout  ft., From  7 Pit privy 8 Sewage lago 9 Feedyard  OG  Sh, sandy  e, medium  tum, coarse e, medium  N: This water well water  This Water Well  sipment, Inc.	3 Bento ft.  FROM  FROM  Is (1) constru	ft., Fro nite 4 to	Other  Other  ft., From tock pens storage izer storage izer storage reticide storage my feet?	ft. t	o ft.  . ft. to