W A ·		CORD	Form WW				sion of Water		Well ID	MW18
	rinal Record	Correction	Change in \			Kesou	rces App. No.	Tr. Link		
ŧ .		WATER WELI	L:	Fraction SE ¼ SE	¼ SE	1/4 SE 1/4	1	er Township Num		7 E X W
Coun	<u> </u>	T (1)						ll is located (if unk		
1	LL OWNER:	Last Name: Dept of Health & E		First:				: If at owner's ad		
	ess: 1000 SW					4th St, Harpe				
Addre	ess:									
City		opeka S		ZIP: 66612	71. 24.6	ft 5	Latitude:	37.283	25 (de	cimal degrees)
	ATE WELL H "X" IN	4 D	EPTH OF COM s) Groundwater Er	countered WEL	1L:34.0.	ft	Longitude	98 021	57 (de	cimal degrees)
	TION BOX:	2)	ft 3)	ft. or 4	Dry We	all l	Horizontal	Datum x WGS	84 NAD	83 NAD 29
	N	WELL	S STATIC WATE	R LEVEL:	22.14	ft.		Latitude/Longitude		
			below land surfac					unit make/model:)
ww	NE NE		above land surface					AAS enabled?)
			test data: Well v				===	Survey Topog	гарпіс міар	
w		E a:	fter hour	rs pumping ter well was	gpm ft	1		Маррег		
sw	'	l at	fter hour			1 6	Elevation	1413.86 ft	Ground L	evel X TOC
- "	SE SE		nated Yield:			1	Source X	Land Survey	GPS	Topographic Map
		x Bore	Hole Diameter:	7.25 in to	o ft, a	nd		Other		
	S			in to	oft	ļ				
	1 MATER TO	O BE USED AS:								
7 WEL 1 Domestic			ublic Water Supp	niv: well ID		10	Oil Field V	Water Supply: lease	2	l
	sehold		Dewatering: how	-			Test Hole: well			
Lawn	& Garden		Aquifer Recharge:	•			Cased	Uncased	Geotechnic	al
Lives	stock	8 X N	Monitoring: well	ID MW18		12	Geothermal: Ho			
2 Irriga	ation	9 Envir	onmental Remedi				 a) Closed Loo 		Vertic	
3 Feedl			Air Sparge	Soil Vapor E	extraction		b) Open Loop		ischarge	Inj. of Water
4 Indus	strial	F	Recovery	Injection			Other (spe	cify):		
Was a chem	ical/bacteriol	ogical sample sul	bmitted to KDH	E? Yes	X No	If yes, dat	e sample was su	bmitted:		
Water well di	isinfected?	Yes X No								
8 TYPI	E OF CASING	G USED: Si	teel X PVC	Other		CASING JOI	NTS: Glu	ed Clampled	Welded	X Threaded
Casing diam	8 TYPE OF CASING USED: Steel X PVC Other CASING JOINTS: Glued Clampled Welded X Threaded Casing diameter 2 in. to 19.6 ft, Diameter in. to ft, Diameter in. to ft,									
		Casing height above land surface -0.31 in. Weight lbs./ft. Well thickness or gauge No								
TYPE OF SCREEN OR PERFORATION MATERIAL:										
			_			По	ther (Specify)			
Steel	Stain	less Steel	Fiberglass	X PVC	d (open hole)		ther (Specify)			
Steel Brass	Stain Galva	less Steel	Fiberglass Concrete tile		d (open hole)		ther (Specify)			
Steel Brass SCREEN (Staini Galva OR PERFOR	less Steel anized Steel ATION OPENIN	Fiberglass Concrete tile IGS ARE:	X PVC	d (open hole) Torch Cut		ther (Specify)	Other (Specify)	
Steel Brass SCREEN (Conti	Stain Galva OR PERFORA inuous Slot	less Steel anized Steel ATION OPENIN X Mill Slot	Fiberglass Concrete tile IGS ARE: Gauze	X PVC None used	Torch Cut	Drille	d Holes	Other (Specify)	
Steel Brass SCREEN (Conti	Stain Galva OR PERFORA Inuous Slot ered Shutter	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched	Fiberglass Concrete tile IGS ARE: Gauze	X PVC None used Wrapped /rapped	Torch Cut Saw Cut	Drille None ft.	d Holes [(Open Hole) to	Other (Specify	ft. to	ft,
Steel Brass SCREEN (Conti	Stain Galva DR PERFORA Inuous Slot ered Shutter ERFORATED	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched	Fiberglass Concrete tile IGS ARE: Gauze d Wire W From 19.6	X PVC None used Wrapped /rapped	Torch Cut Saw Cut ft, From	Drille None ft.	d Holes [(Open Hole) to		ft. to	ft, ft,
Steel Brass SCREEN (Conti	Staini Galva OR PERFORA Inuous Slot ered Shutter ERFORATED VEL PACK I	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: I	Fiberglass Concrete tile IGS ARE: Gauze v d Wire W From 19.6 f From 18 f	X PVC None used Wrapped /rapped ft. to 34.6	Torch Cut Saw Cut ft, From ft, From	Drille None ft.	d Holes [(Open Hole) to	ft, From	ft. to	ft,
Steel Brass SCREEN (Conti	Staining Galva OR PERFORA inuous Slot ered Shutter ERFORATED VEL PACK I	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: INTER	Fiberglass Concrete tile IGS ARE: Gauze Wire W From 19.6 f From 18 f ent Cem	None used Wrapped /rapped fit. to 34.6 fit. to 35.5 ment grout X	Torch Cut Saw Cut ft, From ft, From	Drille None ft. X Other	d Holes [(Open Hole) to to	ft, From	ft. to	ft,
Steel Brass SCREEN C Conti Louve SCREEN-PE GRA 9 GROUT Grout interva	Staini Galva OR PERFORA inuous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: INTER	Fiberglass Concrete tile IGS ARE: Gauze Wire W From 19.6 ff From 18 ff ent Cem 18 ft, Fro	None used Wrapped /rapped fit. to 34.6 fit. to 35.5 ment grout X	Torch Cut Saw Cut ft, From ft, From	Drille None ft. X Other	d Holes [(Open Hole) to to	ft, From ft, From	ft. to	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA GROUT Grout interva Nearest sou	Staini Galva OR PERFORA inuous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From rce of possible	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: Inter	Fiberglass Concrete tile IGS ARE: Gauze Mire W From 19.6 ff From 18 ff ent Cem 18 ft, From ateral Lines	None used Wrapped Trapped Tt. to 34.6 Tt. to 35.5 Then grout Tt. Pit Privy	Torch Cut Saw Cut ft, From ft, From Bentonite	Drille None ft. ft. X Other ft, Fron	d Holes (Open Hole) to to Concrete: 0-0.5 n ft.	ft, From ft, From to ft, Insecticide	ft. toft. to	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interva Nearest sou	Staining Galva OR PERFORATION FOR PERFORATED VEL PACK I MATERIAL Als: From Tree of possible Tank Tank Tank	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: Inter	Fiberglass Concrete tile IGS ARE: Gauze Mire W From 19.6 ff From 18 ff ent Cem 18 ft, From ateral Lines less Pool	X PVC None used	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. ft. X Other ft, Fron Lives X Fuel S	d Holes (Open Hole) to to Concrete: 0-0.5 n ft.	ft, From ft, From to ft, Insecticide Abandone	ft. toft. to	ft, ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interva Nearest sout Septic Sewer Water	Staining Galva OR PERFORATION ERFORATED VEL PACK I MATERIAL als: From rec of possible Tank I Lines rtight Sewer Line	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: Inter	Fiberglass Concrete tile IGS ARE: Gauze Mire W From 19.6 ff From 18 ff ent Cem 18 ft, From ateral Lines	None used Wrapped Trapped Tt. to 34.6 Tt. to 35.5 Then grout Tt. Pit Privy	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. ft. X Other ft, Fron Lives X Fuel S	d Holes (Open Hole) to to Concrete: 0-0.5 n ft.	ft, From ft, From to ft, Insecticide	ft. toft. to	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA' 9 GROUT Grout interva Nearest sou Septic Sewer Water Other	Staining Galva OR PERFORATION OR PERFORATED VEL PACK I MATERIAL als: From ree of possible Tank Tank Tank Times Tight Sewer Lin (Specity)	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: Inter	Fiberglass Concrete tile IGS ARE: Gauze Mire W From 19.6 ff From 18 ff ent Cem 18 ft, From ateral Lines less Pool	X PVC None used Vrapped	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes (Open Hole) to to Concrete: 0-0.5 n ft.	ft, Fromft, Fromft toft,	ft. toft. to	ft,
Steel Brass SCREEN (Contil Louve SCREEN-PE GRA 9 GROUT Grout interve Nearest sout Sewer Water Other Direction from	Staining Galva OR PERFORA Inuous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From ree of possible Tank In Lines reight Sewer Line (Specity) In well? S	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: Inter	Fiberglass Concrete tile IGS ARE: Gauze v d Wire W From 19.6 f From 18 f ent Cem 18 ft, Fro n: ateral Lines eess Pool eepage Pit	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes [(Open Hole) to to Concrete: 0-0.5 nft. tock Pens Storage izer Storage	ft, From ft, From to ft, Insecticide Abandone Oil Well /	ft. to ft. to ft. to Storage d Water Well Gas Well	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interve Nearest sou Sewer Water Other Direction from	Staining Galva OR PERFORATION FOR PERFORM FOR PERF	less Steel	Fiberglass Concrete tile IGS ARE: Gauze Mire W From 19.6 ff From 18 ff ent Cem 18 ft, From ateral Lines less Pool	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes (Open Hole) to to Concrete: 0-0.5 n ft.	ft, Fromft, Fromft toft,	ft. to ft. to ft. to Storage d Water Well Gas Well	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interve Nearest sout Sewer Water Other Direction from 10 FROM	Staining Galva OR PERFORATION FOR PERFORM FOR PERF	less Steel	Fiberglass Concrete tile IGS ARE: Gauze v d Wire W From 19.6 f From 18 f ent Cem 18 ft, Fro n: ateral Lines eess Pool eepage Pit	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes [(Open Hole) to to Concrete: 0-0.5 nft. tock Pens Storage izer Storage	ft, From ft, From to ft, Insecticide Abandone Oil Well /	ft. to ft. to ft. to Storage d Water Well Gas Well	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interve Nearest sou Sewer Water Other Direction from	Staining Galva OR PERFORATION FOR PERFORM FOR PERF	less Steel	Fiberglass Concrete tile IGS ARE: Gauze v d Wire W From 19.6 f From 18 f ent Cem 18 ft, Fro n: ateral Lines eess Pool eepage Pit	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes [(Open Hole) to to Concrete: 0-0.5 nft. tock Pens Storage izer Storage	ft, From ft, From to ft, Insecticide Abandone Oil Well /	ft. to ft. to ft. to Storage d Water Well Gas Well	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interve Nearest sout Sewer Water Other Direction from 10 FROM 0 0.5 11 14	Staining Galva OR PERFORA Innuous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From ree of possible Tank In Lines rtight Sewer Lin (Specity) In well? S TO 0.5 11 14 21	less Steel	Fiberglass Concrete tile IGS ARE: Gauze V Grom 19.6 f From 18 f ent Cem 18 ft, From ateral Lines eess Pool eepage Pit	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes [(Open Hole) to to Concrete: 0-0.5 nft. tock Pens Storage izer Storage	ft, From ft, From to ft, Insecticide Abandone Oil Well /	ft. to ft. to ft. to Storage d Water Well Gas Well	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interva Nearest soul Septic Sewer Water Other Direction from 10 FROM 0 0.5 11 14 21	Staining Galva OR PERFORA Innuous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From ree of possible Tank In Lines Ittight Sewer Lin (Specity) In well? S TO 0.5 11 14 21 25	less Steel anized Steel ATION OPENIN X Mill Slot Key Puncher INTERVALS: I NTERVALS: I Concrete Silt Clayey silt Silt with sand Silt with clay	Fiberglass Concrete tile IGS ARE: Gauze V Grom 19.6 f From 18 f ent Cem 18 ft, From ateral Lines eess Pool eepage Pit	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes [(Open Hole) to to Concrete: 0-0.5 nft. tock Pens Storage izer Storage	ft, From ft, From to ft, Insecticide Abandone Oil Well /	ft. to ft. to ft. to Storage d Water Well Gas Well	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interve Nearest sout Sewer Water Other Direction from 10 FROM 0 0.5 11 14	Staining Galva OR PERFORA Innuous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From ree of possible Tank In Lines rtight Sewer Lin (Specity) In well? S TO 0.5 11 14 21	less Steel	Fiberglass Concrete tile IGS ARE: Gauze V Grom 19.6 f From 18 f ent Cem 18 ft, From ateral Lines eess Pool eepage Pit	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to agoon	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes (Open Hole) to to Concrete: 0-0.5 n ft. tock Pens Storage izer Storage	ft, From ft, From to ft, Insecticide Abandone Oil Well / ft LITHO. LOG (co	ft. to ft. to ft. to Storage d Water Well Gas Well	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interva Nearest soul Septic Sewer Water Other Direction from 10 FROM 0 0.5 11 14 21	Staining Galva OR PERFORA Innuous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From ree of possible Tank In Lines Ittight Sewer Lin (Specity) In well? S TO 0.5 11 14 21 25	less Steel anized Steel ATION OPENIN X Mill Slot Key Puncher INTERVALS: I NTERVALS: I Concrete Silt Clayey silt Silt with sand Silt with clay	Fiberglass Concrete tile IGS ARE: Gauze V Grom 19.6 f From 18 f ent Cem 18 ft, From ateral Lines eess Pool eepage Pit	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to agoon	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes (Open Hole) to to Concrete: 0-0.5 n ft. tock Pens Storage izer Storage	ft, From ft, From to ft, Insecticide Abandone Oil Well /	ft. to ft. to ft. to Storage d Water Well Gas Well	ft,
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interva Nearest sou Septic Sewer Uater Other Direction from 10 FROM 0 0.5 11 14 21	Staining Galva OR PERFORA Innuous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From ree of possible Tank In Lines Ittight Sewer Lin (Specity) In well? S TO 0.5 11 14 21 25	less Steel anized Steel ATION OPENIN X Mill Slot Key Puncher INTERVALS: I NTERVALS: I Concrete Silt Clayey silt Silt with sand Silt with clay	Fiberglass Concrete tile IGS ARE: Gauze V Grom 19.6 f From 18 f ent Cem 18 ft, From ateral Lines eess Pool eepage Pit	X PVC None used None use	Torch Cut Saw Cut ft, From ft, From Bentonite to agoon	Drille None ft. X Other ft, Fron Lives X Fuel S Fertili	d Holes (Open Hole) to to Concrete: 0-0.5 n ft. tock Pens Storage ITO E ID: Ron's Sen	ft, From	ft. to ft. to ft. to Storage d Water Well Gas Well nt.) or PLUGGIN	ng intervals
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interva Nearest sou Septic Sewer Uater Other Direction from 10 FROM 0 0.5 11 14 21 25	Staining Galva OR PERFORM Innous Slot ered Shutter ERFORATED VEL PACK I MATERIAL als: From ree of possible Tank In Lines Hight Sewer Lin (Specity) In well? S TO 0.5 11 14 21 25 35.5	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: I NTERVALS: I Conceste Silt Clayey silt Silt with sand Silt with clay Silt CR LANDOWNE	Fiberglass Concrete tile IGS ARE: Gauze v d Wire W From 19.6 f From 18 f ent Cem 18 ft, Fro n: ateral Lines less Pool eepage Pit LITHOLOGI	X PVC None used	Torch Cut Saw Cut ft, From ft, From Bentonite to agoon	Drille None ft. ft. X Other ft, From Lives X Fuel S Fertili -70 FROM	d Holes (Open Hole) to to Concrete: 0-0.5 n ft. tock Pens Storage izer Storage TO E ID: Ron's Sen	ft, From ft, From ft, From ft to ft, Insecticide Abandone Oil Well / ft LITHO. LOG (co	ft. to ft. to ft. to Storage d Water Well Gas Well nt.) or PLUGGIN	IG INTERVALS
Steel Brass SCREEN (Conti Louve SCREEN-PE GRA 9 GROUT Grout interva Nearest sou Septic Sewer Water Other Direction from 10 FROM 0 0.5 11 14 21 25 11 CONT jurisdiction	Staining Galva OR PERFORATION OR PER	less Steel anized Steel ATION OPENIN X Mill Slot Key Punched INTERVALS: I NERVALS: I Concept Concept Silt Clayey silt Silt with sand Silt with clay Silt OR LANDOWNE pleted on (mo-day-	Fiberglass Concrete tile IGS ARE: Gauze V d Wire W From 19.6 ff From 18 ft ent Cem 18 ft, From ateral Lines leepage Pit CR'S CERTIFIC Eyear) 12/6/	X PVC None used None u	Torch Cut Saw Cut ft, From ft, From Bentonite to agoon from well?	Drille None ft. X Other ft, From Lives X Fuel S Fertile FROM Notes: KDH	d Holes (Open Hole) to to Concrete: 0-0.5 n ft. tock Pens Storage IZER Storage IZER Storage TO E ID: Ron's Sen	ft, From	ft. to ft. to ft. to Storage d Water Well Gas Well nt.) or PLUGGIN	IG INTERVALS
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DENNIS L HANDKE

1820 NW 59th Terrace TOPEKA, KANSAS 66618 785-286-4047 Home 785-286-1990 Fax

Jesse Chapman Larsen & Assoc. 1311 E. 25th St., Suite B Lawrence, Kansas, 66046 January 18, 2017 Revised March 10, 2017

RE: Monitor Well Elevation Survey 423 E. 14th St. Harper, Kansas Proj. 17-00A KDHE ID# U2-039-12937 Ron's Service

Bench M	ark: Square cı	ut on Southeast co	orner of con			
Elev: 141	6.06	North 5300	West	45	(from SEC	Cor. Sec. 12-32-7W)
					// > TO 1 // > T	D. (12 TD) //
MW-15	rim	1415.73	North 52		,	E1/4,NE1/4
	top pipe	1415.30	West 1	25 Lat =	= 37.28301	Long = 98.02184
		141504	NT 41 50	V	/4 NTC1 /4 NE	E1/4 NE1/4
MW-16	rim	1415.94				E1/4,NE1/4
	top pipe	1415.62	West	37 Lat =	37.28297	Long = 98.02154
NAW 17		1416.82	North 52	0.45 NIC1	// NE1 // N	E1/4,NE1/4
MW-17	rim				,	•
	top pipe	1416.50	West 1	.03 Lat =	= 37.28291	Long = 98.02177
MW-18	rim	1414.17	North 53	869 SE1	4 SE1/4 SE	1/4,SE1/4 (Sec 1-32-7)
141 44 -1 Q		1413.86	West			Long = 98.02157
	top pipe	1415.60	AA C21	45 Dat-	31.20323	Bong - 70.02137
MW-19	rim	1416.84	North 52	254 NE1	/4.NE1/4.N	E1/4,NE1/4
102 17	top pipe	1416.45				Long = 98.02203
	top pipe	1110.15				.
MW-20	rim	1415.60	North 52	262 NW	1/4,NW1/4,	NW1/4,NW1/4 (Sec. 7-32-6)
	top pipe	1415.19	East	91 Lat =	= 37.28296	Long = 98.02110
	wp p.p.					
MW-21	rim	1417.53	North 51	35 NE1	/4NW1/4,N	E1/4,NE1/4
	top pipe	1417.14	West	68 Lat =	37.28260	Long = 98.02164
MW-22	rim	1414.66	North 53	368 SE1/	4,SE1/4,SE	1/4,SE1/4 (Sec. 1-32-7)
	top pipe	1414.17	West 1	84 Lat =	37.28324	Long = 98.02205
	P F-T-	- 2	_			
MW-23	rim	1416.85	North 50	96 NW	1/4,NW1/4,]	NW1/4,NW1/4 (Sec. 7-32-6)
	top pipe	1416.39			, ,	Long = 98.02128
	יין קיין					

Lat & Long derived from the Harper 7.5 minute Quad map, WGS84

RECEIVED

Elevation derived from USGS BM L309 "1953". NAVD 88

MAR 1 3 2017

If you have any disections, please feel free to call me. Thank you for the opportunity to be WATER

Dennis L. Hamake RLS