WATER WI				WWC-5				ion of Water			M33/11	
X Original I		Correcti		gc in Well Ust			Resou	rces App. No.		Well ID	MW11	
1		VATER W	ELL:	Fraction	CE 1/	CE 1/	CE I/	1	er Township Nun			
County 2 WELL	Crawford OWNER: 1	l act Name:		NE ¼ First:	SE ¼	SE ¼	SE ¼	<u>. </u>	T 29	<u> </u>	25 X E W	
i .		rcss (Hale Pe	troleum Co)	rust.	Í				: If at owner's ac			
1	306 S Crav	-			2	01 N West				,		
Address:												
City		tenac	State: KS	ZIP: 6676							 	
1	3 LOCATE WELL 4 DEPTH OF COMPLETED WELL: 11.5 ft 5 Latitude: 37.54454 (decimal degrees)											
1	WITH "X" IN Dcpth(s) Groundwater Encountered: 1) ft Longitude 94.70513 (decimal degrees) SECTION BOX: 2) ft 3) ft, or 4) Dry Well Horizontal Datum; X WGS 84 NAD 83 NAD											
N WELL'S STATIC WATER LEVEL: 1.03 ft. Source for Latitude/Longitude:												
X below land surface, measured on (mo-day-yr) 8/26/2019 GPS (unit make/model:)		
NW	NE NE	_ [above land	surfacc, measured	/-yr)	(WAAS enabled? Yes No)						
,	1 .	F		Well water was								
w		Ε	after	hours pumping Water well was		gpm		Online	Mapper			
'	1		after	hours pumping			6	Elevation	1009.33 ft	Ground L	evel X TOC	
sw	SE SE			gpm		81			Land Survey		Topographic Map	
		x I	Bore Hole Diame	eter: 7.25 i	n to	ft, and						
	S	l l		i	n to	ft ft						
7 WELL N			1.0									
7 WELL V	VAIERTO	BE USED A	_	r Supply: well ID			10	Oil Field V	Water Supply: leas	P		
Househo	ld	6F		how many wells'	?			Test Hole: well				
Lawn &		7	Aquifer Rec					Cased	Uncased	Gcotechnic	:al	
Livestocl	k	8	Monitoring:	well ID MW11			12	Geothermal: Ho	w many bores?			
2 Irrigation	1	9 E		emediation: well	ID			a) Closed Loc	p 🔲 Horizonta	l Vertic	al	
3 Feedlot			Air Sparge	Soil Va	•	or		b) Open Loop		ischarge	Inj. of Water	
4 Industria	.ll	L	Recovery	Injectio	n			Other (spe	cify):			
Was a chemica	l/bacteriolo	gical sampl	e submitted to	KDHE?	Yes X N	40 I	f yes, date	e sample was su	bmitted:	e strong		
Water well disinf		Yes X										
8 TYPE O	F CASING	USED:	Steel X P	VC Other		CAS	ING JOI	NTS: Glu	ed Clampled	Welded	X Threaded	
Casing diameter	r2	in. to	3 ft, D	iameter	in. to	0	ft,	Diameter	ed Clampled in. to	ft,		
Casing height a	DOVE IANG SU	DEDEOD A	1.23 III. TION MATER	Weight	•••••	lbs./lt.	Well ti	nickness or gaug	ge No			
Steel	Stainle		Fiberglas		,			than (Smaaif.)				
Brass	=	nized Steel	Concrete		e used (oper	n hole)		ther (Specify)				
			NINGS ARE:	тие	e asea (oper	i noic)						
Continuo		X Mill Slo		auze Wrapped	Torc	h Cut	Drille	d Holes [Other (Specify	/)		
Louvered				Vire Wrapped	Saw							
I SCKEEN-PERI	ORATED	INTERVAL	S: From 3	ft. to l	1.5 ft,	From	ft.	to	ft, From	ft. to	ft,	
GRAVE	EL PACK II	NTERVAL	S: From 2	ft. to 1	1.5 ft,	From	ft.	to	ft, From	ft. to	ft,	
9 GROUT MA	ATERIAL:	Neat	cement	Cement grout					7'			
Grout intervals:	: From	0.7 ft. t					ft, Fron	n ft.	to ft,	***************************************		
Nearest source	e of possibl	e contamin						***************************************	***************************************			
Septic Ta			Lateral Lines	s 🔲 Pit 1	Privy		Livest	ock Pens	Insceticide	e Storage		
Sewer Li			Cess Pool		agc Lagoon/	· [2	_	Storage	Abandone	d Water Well		
1 == ~	ht Sewer Lir	ics	Scepage Pit	Fee	dyard	L	Fertili	zer Storage	Oil Well /	Gas Well		
Direction from u	***************************************			D'-1					•			
Direction from w		1			ance from w				ft			
10 FROM	TO 0.4	Toncall	LITHO	LOGIC LOG		F	ROM	TO	LITHO. LOG (co	nt.) or PLUGGI	NG INTERVALS	
0.4	6	Topsoil Silty clay										
6	10.5 Shale/mudstone											
10.5	11.5	Limestone										
						Ned	act L'DII	E ID. Assess P	Dunger 112 010 12	201		
Notes: KDHE ID: Arma Express; U3-019-13581 Target of monitoring well is shallow groundwater, <20' of grout was installed at												
the direction of KDHE.												
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was X constructed,												
jurisdiction and was completed on (mo-day-year) 8/12/19 and this record is true to the best of my knowledge and belief Kansas Water Att Contractor's License No 757 This Water Well Record was completed on (mo-day-year) 9/9/19												
License No	75			_				Signature	(/)		}	
under the bus			& Associates, Inc		l well to: Kan	isas Departu	ent of Hea		ent, Bureau of Water	GW Section		
Y 35 4	1000 SW	Jackson St., Si	ite 420. Toneka k	Cansas 66612-1367.	Mail one to	Water Well	Owner and	retain one for you	ur records. Telephone	785-296-5524.	i i	
	1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Mail one to Water Well Owner and retain one for your records. Telephone 785-296-5524. Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212. Revised 7/10/2015								•			

DENNIS L HANDKE

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

Jess Chapman Larsen & Associates 1311 E. 25th Street, Suite B Lawrence, Kansas, 66046 August 27, 2019

RE: Monitor Well Elevation Survey 102 E. Washington St., Arma, Kansas Proj. 19-00CC Arma Express U3-019-13581

Bench Mark: Square cut on SW corner of concrete school speed zone light base at SW Corner of property.

Liev. 1010.55		1401111 339.40	W 681 3230.32		(Holf 3E Col. Sec. 3-23-23E)			
MW-10	rim	1009.88	North	676.08	NW1/4,SW1/4,SW1/4,SW1/4			
	top pipe	1009.52	West	5221.00	Lat= 37.54469 Long = 94.70484			
MW-11	rim	1009.58	North	625.80	NE1/4,SE1/4,SE1/4,SE1/4 (Sec. 6-29-25E)			
	top pipe	1009.33	West	5306.54	Lat= 37.54454 Long = 94.70513			

Lat & Long derived from Arma 7.5 quad map. WGS84.

Elevation established from existing project.

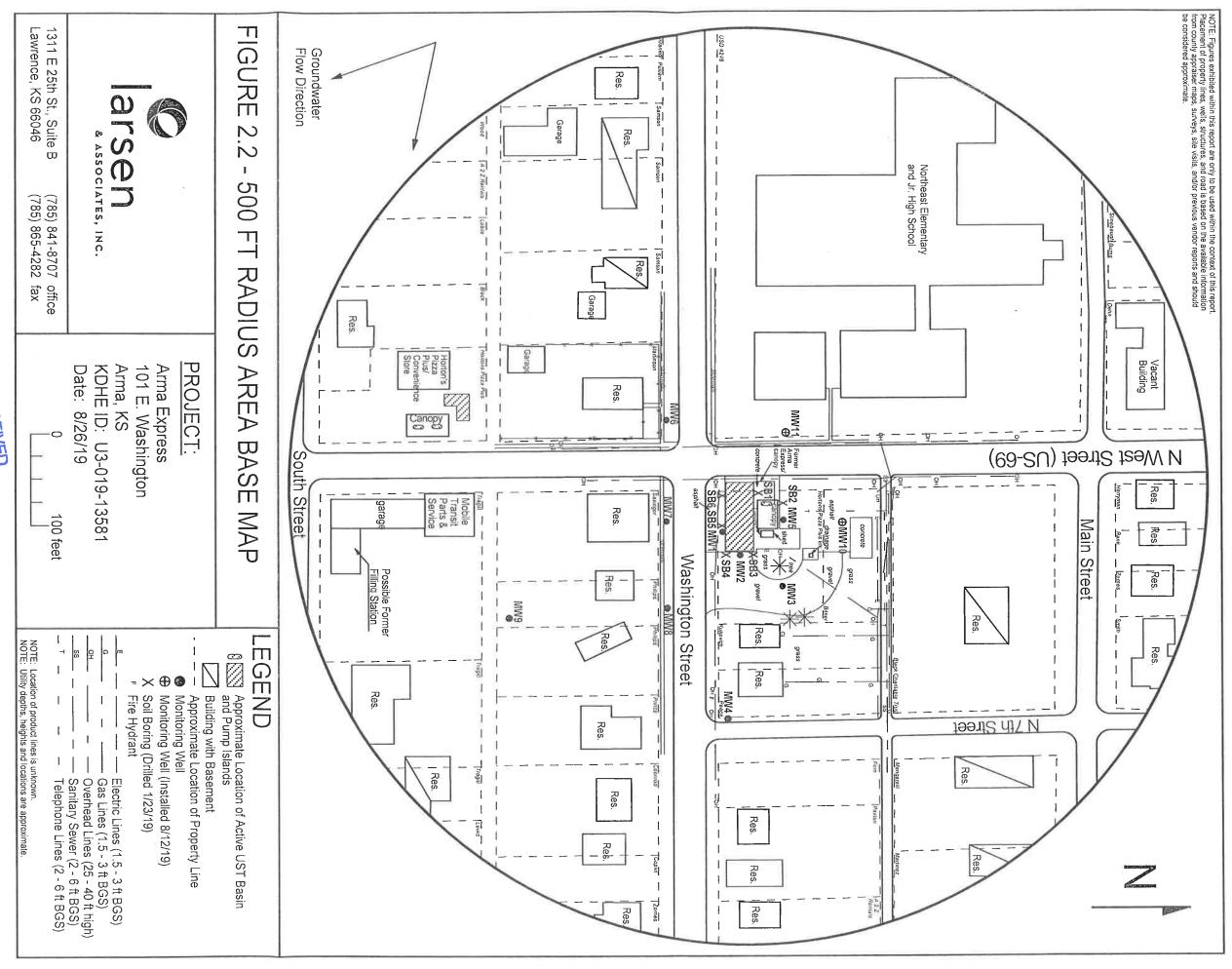
If you have any questions, please feel free to call me. Thank you for the opportunity to be of service to you

Dennis L Handke RLS

RECEIVED

SEP 1 7 2019

BUREAU OF WATER



RECEIVED
SEP 17 2019
BUREAU OF WATER