WATER WELL RECORE	_					ision of Wate				MANAGE
		n Well Ust			Reso	urces App. N			Well ID	MW10
1 LOCATION OF WATE	R WELL:	Fraction					ımber	Township Nun		
County Crawford		NW 1/4	SW 1/4			_ '		T 29		25 X E W
2 WELL OWNER: Last Name: First: Street or Rural Address where well is located (if unknown, distance and direction										
Business: Arma Express (Hale Petroleum Co) from nearest town or intersection): If at owner's address, check here:										
Address: 306 S Crawford ~20' N of 101 E Washington St., Arma, KS Address:										
City Frontenac	State: KS	ZIP: 667	63							
3 LOCATE WELL	4 DEPTH OF CO			I I	ft	5 Latitu	de:	37.544	69 (de	cimal degrees)
WITH "X" IN	Depth(s) Groundwater	Encountered:	1)		ft	Longit		94.704		cimal degrees)
SECTION BOX:	2)ft 3	)ft,	or 4)	Dry We	1 ]	Horizo	ntal E	Datum:X WGS	84 🔲 NAD	83 🔲 NAD 27
N	WELL'S STATIC WAT	TER LEVEL:		1.9 f	t.			atitude/Longitude	:	
	X below land surf					L GI		nit make/model:	<u></u>	)
NW NE	above land surfa	ace, measured	on (mo-	day-yr)		<u></u>		AS enabled?		)
	Pump test data: Wel	l water was	***************************************	ft				rvey Topog	raphic Map	
W E	afterho	ours pumping				L O	ılinc i	Mapper		
		ater well was		ft	-	6 Elevat	ion	1009.52 ft	Ground	evel X TOC
SW — SE —	afterho			gpm			****			Topographic Ma
	Estimated Yield:	gpn			. 1	Source		Land Survey		
lx	Bore Hole Diameter:	1.25	in to	rt, ar	and Other					
mile				11	}					
7 WELL WATER TO BE US	SED AS:									
1 Domestic:	5 Public Water Su	pply: well ID			1	0 Oil Fi	eld W	ater Supply: leas	c	
Household	6 Dewatering: ho					11 Test Hole:				
Lawn & Garden	7 Aquifer Recharg	-				Cased	Γ	Uncased	Geotechnic	al
Livestock	8 X Monitoring: we					12 Geothermal	: How	many bores?		
2 Irrigation	9 Environmental Remo	ediation: well	ID			a) Closed	Loop	Horizonta	I Vertic	al
3 Feedlot	Air Sparge		por Extra	ctior		<li>b) Open I</li>	Loop	Surface D	ischarge	Inj. of Water
4 Industrial	Recovery	Injection	n			Other	(spec	ify):		
Was a chemical/bacteriological s	ample submitted to ICE	IIE2	vaa Tv	No	16 4.					
	No	HE:	res [X	7140	ii yes, da	ite sample wa	is suo	mittea:	***************************************	
					21001010		loi	.[]		[v] m
8 TYPE OF CASING USER Casing diameter 2in. to	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	eter			CASING JO			d Clampled		X Threaded
Casing height above land surface	-0.36 in. W	eight	111.	lbs /	ft, ft Well	thickness or	aanae	in. to		
TYPE OF SCREEN OR PERF	ORATION MATERIA	L:				inienness of	550			
Steel Stainless Stee		X PV	•		$\Box$	Other (Specif	(1)			
Brass Galvanized S				pen hole)	L.)	omer (opeen	,			
SCREEN OR PERFORATION			e usea (o	pen noie)						
Continuous Slot X M	_	e Wrapped	Пт	orch Cut	Dril	led Holes	Г	Other (Specifi	۸	
Similar Control Contro										
COPERA DEPENDATED INTERPRETATION										
GRAVEL PACK INTERVALS: From 2 ft. to 11 ft, From ft. to ft, From ft. to ft, From ft. to ft,										
9 GROUT MATERIAL: Neat cement Cement grout X Bentonite X Other Concrete: 0-0.7' Grout intervals: From 0.7 ft. to 2 ft, From ft. to ft, From ft. to ft,										
***************************************	•	roni	It. to		It, Fro	m	H. to	o		
Nearest source of possible cont										
Septic Tank	Lateral Lines	===	Privy			stock Pens		Insecticide	-	
Sewer Lines	Cess Pool		vage Lago	oon	X Fuel	_			d Water Well	
Watertight Sewer Lines	Seepage Pit	Fcc	dyard		Fert	ilizer Storage		Oil Well /	Gas Well	
Other (Specity)  Direction from well? S  Distance from well? ~100										
Direction from well? S		Dist	ance fron	ı well?	-100			ftft		
10 FROM TO	LITHOLO	GIC LOG			FROM	TO		LITHO. LOG (co	nt.) or PLUGGI	NG INTERVALS
0 0.2 Aspha										
	ete & brick									
0.5 6.5 Silty c	lay									
6.5 10.75 Shale						-				
10.75	tone									
					Naton IV	OF DE C			701	
								ress; U3-019-13:		was installed at
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, or plugged under my										
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 Well Contractor's										
License No. 757 This Water Wall Depart was completed on (ma day year) 9/0/19										
under the business name of La						Signature				<b>-</b>
	long with a fce of \$5.00 for o						onne	nt, Bulcan of Water	CO TR Section	
	St., Suite 420, Topeka, Kans								783-296-5524.	
Visit us at http://www.kdheks.go				32a-1212						d 7/10/2015

## **DENNIS L HANDKE**

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

Jess Chapman Larsen & Associates 1311 E. 25<sup>th</sup> 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. Elev: 1010.33 North 539.46 West 5250.32 (from SE Cor. Sec. 5-29-25E)

21011101		1101011 00011	• • • •		(1.0111 012 0011 0111 11 11 11 11 11
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.

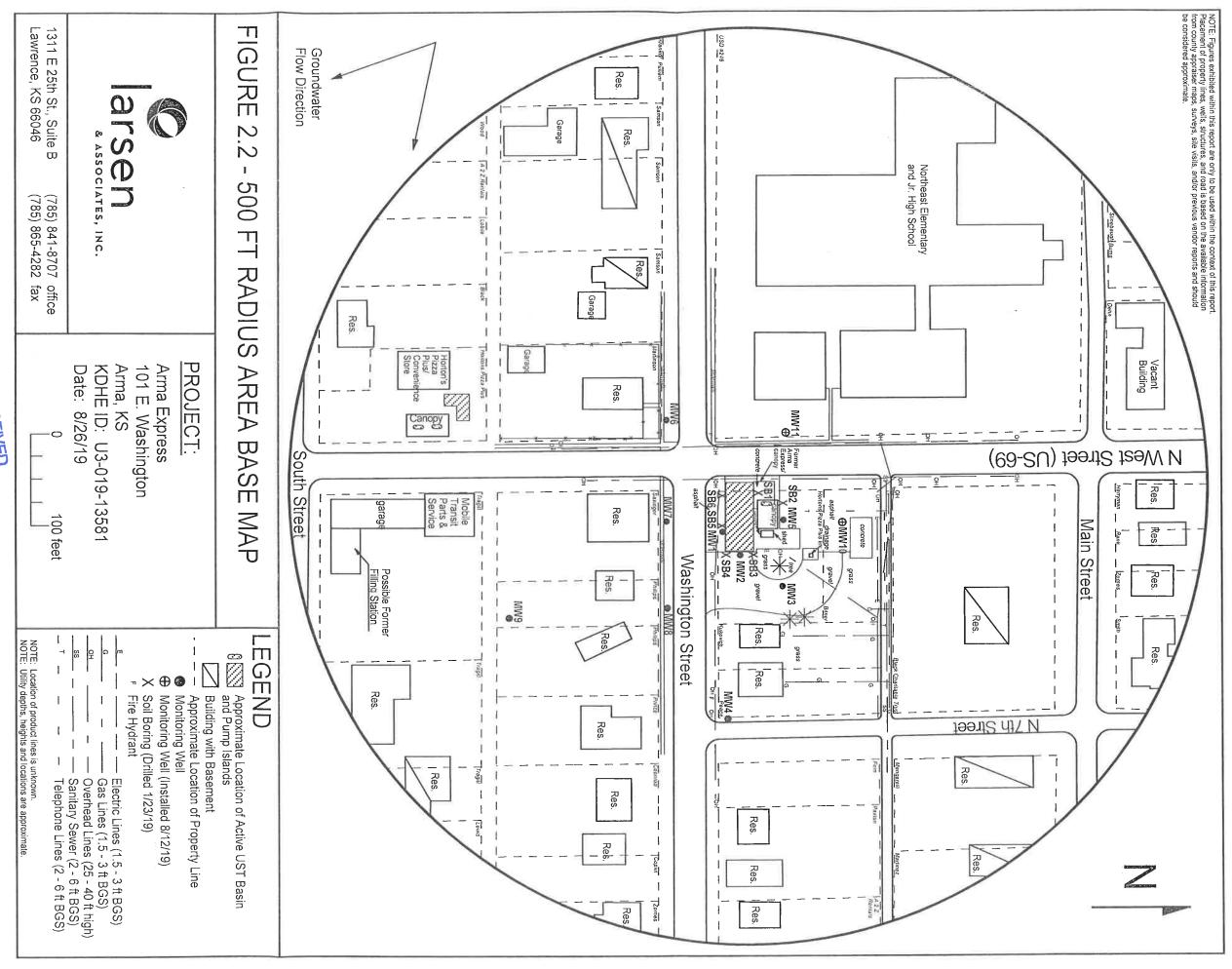
If you have any questions, please feel free to call me. Thank you for the opportunity to be of service to you

Dennis L Handke RLS

RECEIVED

SEP 1 7 2019

**BU**REAU OF WATER



RECEIVED
SEP 17 2019
BUREAU OF WATER