			n WWC-5		vivision of Water	i i		MW4		
			ange in Well Use		sources App. No		Well ID			
		WATER WELL:	Fraction SE 1/4 SE 1/4 SE 1/4		ection Number 3			nge Number		
	ty: Gove OWNER:	Last Name:	First:	SE						
	s: Frontier		riist.			ntersection): If at owner				
Address		248, 415 W. 2nd					n b uddiebb,	check here.		
Address		o	C 270 077 40	100 Railro	ad Ave., Grin	nell, KS				
City:	<u>Oaklev</u>	State: K								
	TE WELL "X" IN		OMPLETED WELL:		ft. 5 Latitue	ie:39.1193	31	.(decimal degrees)		
	ON BOX:		er Encountered: 1)	ft. Longitude: 100.62823 (decimal degrees)						
2)								83 🗆 NAD 27		
WELL'S STATIC WATER LEVEL:										
- NW	NE	above land surfa								
			water was			nd Survey Topogr		10)		
w	E		urs pumping	~.		line Mapper:		***************************************		
SW -	SE		ll water was							
		Estimated Yield:	urs pumping	gpm	6 Elevat	on: 2905.99 fi	t. 🔲 Groun	d Level TOC		
<u> </u>	S		gpm	ft. and	Source:	■ Land Survey □	Land Survey GPS Topographic Map			
	mile	4	in. to			☐ Other				
7 WELL	WATER T	O BE USED AS:						-		
1. Domesti			Water Supply: well ID			Field Water Supply: 1				
Hous			ring: how many wells?			ole: well ID				
☐ Lives	& Garden	7. Aquiter	Recharge: well ID ring: well IDM		. ∐ Cas	ed Uncased U				
2. \square Irriga		8. IVIONIIO 9. Environme	ental Remediation: well I	*.*.∃ D		rmal: how many bore sed Loop Horizon				
3. Feedl		☐ Air Spa								
4. Indus		☐ Recove		b) Open Loop ☐ Surface Discharge ☐ Inj. of Water 13. ☐ Other (specify):						
Was a che	-mical/bacte	riological sample sul	omitted to KDHE?	Ves ■ No		sample was submitte				
		? ☐ Yes ■ No		100 - 100	11 9 00, 4410	ampie was saomin	A	***************************************		
			PVC Dother	CAS	ING JOINTS:	□ Glued □ Clampe	d □ Welde	d Threaded		
Casing diar	neter 4	in. to83.5	ft., Diameter	in. to	ft., Diame	ter in. to	ft			
Casing heigh	tht above land	surface -0.23	in. Weight	lbs./ft.		ess or gauge No				
1		R PERFORATION M								
Steel	_		perglass PVC	47		r (Specify)				
Brass		vanized Steel 🔲 Co RATION OPENINGS		ised (open ho	ie)					
	inuous Slot			orch Cut	Drilled Holes	Other (Specify)				
		☐ Key Punched ☐			None (Open Ho		• • • • • • • • • • • • • • • • • • • •	•••••		
SCREEN-	PERFORAT	ED INTERVALS: Fr	om .83.5 ft. to .113.	5 ft., From	ft. to .	ft., From	ft. to	ft.		
	RAVEL PA	CK INTERVALS: Fr	om 80 ft. to 113.	8 ft., From	ft. to	ft., From	ft. t o	fi.		
9 GROU	Γ MATERIA	AL: Neat cement	☐ Cement grout ■ Be	ntonite 🔳	Other Concre	ie: 0-1"				
			ft., From	ft. to	ft., From	ft. to	ft.			
		le contamination:	Die Deien	_	O. I. Samuelanda Danie		11 0			
☐ Septic		☐ Lateral Li ☐ Cess Pool		_] Livestock Pens I Fuel Storage		cide Storage oned Water			
. —	tight Sewer Li				Fertilizer Stora	_	ell/Gas Well			
Other (Specify)										
Direction from well? .E. Distance from well? ~130' ft.										
10 FROM	TO		OGIC LOG	FROM	I OT	ITHO. LOG (cont.) or	PLUGGIN	G INTERVALS		
0		Gravel						· · · · · · · · · · · · · · · · · · ·		
0.5		Silty clay			 					
5		Silt	<u> </u>	ļ				·		
30		Silt w/ sand, & clay		 						
45		Sand, fine to coarse		 	-					
70		Silty gravel		No4a	l					
80		Sand, silt, gravel		Notes:						
90 100 Silty clay w/ sand KDHE ID: Frontier Ag, Inc (Grinnell); U6-032-14725										
100 113.8 Chalk w/ sand & some silt 11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, constructed, or plugged										
under my jurisdiction and was completed on (mo-day-year) .6/.10/.15 and this record is true to the lest of my knowledge and helief										
under my jurisdiction and was completed on (mo-day-year) .6/10/15										
under the b	usiness name	e of Larsen & Assor	ciates, Inc	S	ignature					
Mail	l white copy alc	ong with a fee of \$5.00 for e	ach constructed well to: Kan	sas Departmen	t of Health and En	vironment. Ruseau of Wa	ater, GWTS S	Section.		
1000 Visit ::= (1)	SW Jackson St	L, Suite 420, Topeka, Kansa	as 66612-1367. Mail one to V			for your records Teleph				
visit us at htt	o://www.kdheks	.gov/waterwell/index.html		<u>KSA 82a-12</u>	414		Kevised	7/10/2015		

			WWC-5			ion of Water					MW4						
			ge in Well Use			rces App. N			Well								
		WATER WELL:	Fraction	/ DE I/	Secti	ion Number 3	r T	ownship Numb	er	Rang	ge Number □E ■ W						
	y: Gove		SE 1/4 SE 1/4 SE 1/4	4 SE 1/4 3 T 11 S R 30 Street or Rural Address where well is located (if unknown, di													
	OWNER:		First:					tion): If at owne									
Business: Frontier Aq., Inc. Address: PO Box 248, 415 W. 2nd								•	i s addi	055, 0	icek nere.						
Address:				100 Rai	iroad	Ave., Grir	nnell,	KS									
City:	Oaklev	State: KS	ZIP: 67748														
3 LOCAT		4 DEPTH OF COM	1PLETED WELL:	113.5.	ft.	5 Latitu	ıde:	39.1193	31	(decimal degrees)						
WITH	'X" IN ON BOX:	Depth(s) Groundwater	Encountered: 1)	ft.		Longit	tude: .	100.62	B23	(decimal degrees)						
	N N	2) ft.	3) ft., or 4)	☐ Dry We	il	Horizontal Datum: ■ WGS 84 □ NAD 83 □ NAD 27											
l		WELL'S STATIC WA	TER LEVEL:	Source for Latitude/Longitude:													
		below land surface	, measured on (mo-day , measured on (mo-day	_ `													
NW	NE	Pump test data: Well v					(WAAS enabled? ☐ Yes ☐ No) Land Survey ☐ Topographic Map				<i>)</i>)						
w	E	. G	s pumping		Online Mapper:												
1 1 '	1 1	,	vater was	ft.													
SW	SE		s pumping	gpm		6 Florest	tion:	2905.99.71 _{ft}		d	Lavel TOC						
	X	Estimated Yield:		<u> </u>				and Survey									
, ,	S	Bore Hole Diameter:						her									
1	mile	O BE USED AS:	in. to	11.													
1. Domestic			ater Supply: well ID			10 🗆 Oil	l Field	Water Supply: 1	ease								
House			ig: how many wells?					vell ID									
1	& Garden	7. Aguifer R	echarge: well ID	. .		☐ Cas	sed [☐ Uncased ☐									
☐ Livest	ock		g: well IDM					how many bore									
2. 🔲 Irrigat			al Remediation: well I					oop 🔲 Horizon									
3. Feedle		☐ Air Sparge	•	Extraction				p									
4. 🗌 Indust		☐ Recovery						ecify):									
		eriological sample subm	nitted to KDHE?	Yes	No .	If yes, date	sampl	le was submitte	ed:	•••••							
		? Yes No			. an .	o ton me			. –								
8 TYPE C	OF CASING	G USED: ☐ Steel PV	C Other	C <i>i</i>	ASIN	G JOINTS:	: ∐ GI	lued 🗀 Clampe	d ∐ W	'elded	Threaded						
Casing dian	neter	in. to 83.5 ft., I surface -0.23 in	Diameter	in. to		ft., Diamo	eter	in. to		II.							
		R PERFORATION MA		103	./11.	wall uller	11022 01	gauge No		• • • • •							
☐ Steel		inless Steel Fiber				□ Othe	er (Spe	cify)									
Brass	_	Ivanized Steel	Ş	used (open	hole)		· (-F·										
		RATION OPENINGS A		` •													
	nuous Slot		auze Wrapped 🔲 T	orch Cut	🔲 Dri	illed Holes	☐ Otl	her (Specify)									
☐ Louve	ered Shutter	☐ Key Punched ☐ W	'ire Wrapped ☐ Sa	w Cut	□ No	ne (Open Ho	ole)										
SCREEN-	PERFORAT	TED INTERVALS: From	יילון: tt. to ביליליט. ב 112 - יים 20	9 ft., Fr	om	ft. to		ft., From		ft. to .	ft.						
G	RAVELPA	CK INTERVALS: From	n	.o ft., Fr	om	Concre	oto: 0-	H., From	<u></u>	ft. to .	ft.						
9 GROUT	MATERI	AL: Neat cement 1 ft. to 80	Cement grout B	entonite	Oti	ner	eie. o-	ft to			• • • • • • • • • • • • • • • • • • • •						
		ole contamination:	It., FIOIII	11. 10		it., FIOIII .		11. 10	1	L.							
Septic	-	☐ Lateral Line	s 🔲 Pit Privy		\Box L	ivestock Pen	ns	☐ Insecti	cide Sto	rage							
Sewer		☐ Cess Pool	Sewage La	igoon		uel Storage		Aband		_	/ell						
☐ Watertight Sewer Lines ☐ Seepage Pit ☐ Feedyard ☐ Fertilizer Storage ☐ Oil Well/Gas Well																	
☐ Other (Specify)																	
								ft). LOG (cont.) o		CINIC	INTERNATO						
10 FROM	TO	LITHOLOG	PIC TOP	FROM	VI	10	ri i HC	. LOG (cont.) o	LLUU	GING	INTERVALS						
0	0.5 5	Gravel		+													
0.5 5	30	Silty clay Silt		+	-+												
30	45	Silt w/ sand, & clay									·- · · · · · · · · · · · · · · · · · ·						
45	70	Sand, fine to coarse		 	_		·			• • • •							
70	80	Silty gravel		 													
80	90	Sand, silt, gravel		Notes													
						ontier An Inc	: (Grinn	iell): U6-032-147	25								
100 113.8 Chalk w/ sand & some silt																	
11 CONT	RACTOR'	S OR LANDOWNER'S	CERTIFICATION	: This v	vater v	well was 🔳	cons	ructed, D reco	onstruc	ted. o	r 🔲 plugged						
under my j	urisdiction a	and was completed on (montractor's License No7	10-day-year) .6/.10/.1	5:	and th	is record is	true	o the best of m	y knov	vledge	and belief.						
Kansas Wa	ter Well Co	intractor's License No(Di This Wa	ater Well	Recoi	rd was com	1610fd	on mo day y	ear) .10	JI.(/.1;	2						
under the b	usiness nam	ne of Larsen & Associations with a fee of \$5.00 for each	h constructed well to: Kai	ısas Denam	nent of	f Health and F	nal Vin	ent Bureau of W	ater Gu		ction						
1000	SW Jackson S	St. Suite 420 Toneka Kansas	66612-1367. Mail one to	Water Well	Owner	and retain on	ne for	unrecords Teleph	ione 785	-296-5	524						
								J. Land		1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Mail one to Water Well Owner and retain one for your ecords. Telephone 785-296-5524. Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212 Revised 7/10/2015							



P.O. Box 546 Clearwater, Kansas 67026 Cell (316) 648-3617 Fax (620) 584-4371 E-mail: triterrals@yahoo.com

SURVEYING OF MONITORING WELLS FRONTIER AG, INC. GRINNELL, KANSAS

The above site is in Section 3, Township 11 South, Range 30 West of the Sixth Principal Meridian, Gove County, Kansas. The Southeast corner of Section 3 was assigned coordinates of 00.00 North and 00.00 West.

The vertical control was an NGS benchmark located in the northwest corner of the intersection of Oak Street and Old Hwy 40 and described as a disk set in the top of the west end of a north headwall of a concrete culvert, 17' north of the Hwy centerline and 45' west of the center of Oak Street. A control point was established as a chiseled 'X' on the northwest corner of the Grinnell Community sign base at the southeast corner of the site.

The Latitude and Longitude were recorded from a GPS unit. The site is located on the 7.5' quad map titled "GRINNELL SOUTH".

ID SE Corner Sec 3-T11S-R30W	NORTH 00.00	WEST 00.00	LATITUDE	LONGITUDE	ELEVATION
CP	40.46	54.88	39.11895	100.62745	2905.32
MW-1 SE SE SE SE	151.94	48.39	39.11927	100.62743	RIM 2905.34 TOC 2905.05
MW-2 SE SE SE SE	60.05	156.61	39.11901	100.62779	RIM 2905.77 TOC 2905.42
MW-3 SE SE SE SE	81.92	29.13	39.11903	100.62749	RIM 2905.15 TOC 2904.66
MW-4 SE SE SE SE	169.60	272.16	39.11931	100.62823	RIM 2906.22 TOC 2905.99
MW-5 (Sec 2) SW SW SW SW	59.62	-49.39	39.11900	100.62707	RIM 2905.71 TOC 2905.13
MW-6 (Sec 2) SW SW SW SW	177.29	-50.14	39.11934	100.62708	RIM 2905.56 TOC 2905.03
MW-7 SE SE SE SE	181.52	132.74	39.11934	100.62772	RIM 2905.93 TOC 2905.55

