

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

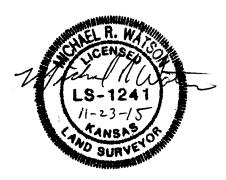
## SURVEY OF MONITORING WELLS TITIAN EXPRESS LANE (WEST) COLUMBUS, KANSAS

The above site is in Section 13, Township 33 South, Range 23 East of the Sixth Principal Meridian, Cherokee County, Kansas. The Southeast corner of Section 13 was assigned coordinates of 00.00 North and 00.00 West.

The vertical control was a NGS benchmark titled "North Meridian" and is described as a copper bolt set in the top of a concrete monument, at the northeast corner of the county courthouse yard, 25 feet west of the Kansas Avenue sidewalk and 6 feet south of the Maple Street sidewalk. Elevation: 913.37'. A control point was established as a chiseled 'X' on top of the curb on the radius 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 "Columbus".

ID SE CORNER 13-33S-23E	NORTH 00.00	WEST 00.00	LATITUDE	LONGITUDE	ELEVATION
Control Point	2703.97	3880.72	37.17096	94.84512	908.22
MW-1 SW SW SE NW	2757.84	3913.75	37.17107	94.84525	RIM 909.00 TOC 908.56
MW-2 SW SW SE NW	2724.73	3904.10	37.17097	94.84519	RIM 908.08 TOC 907.65
MW-3 SW SW SE NW	2780.62	3818.89	37.17115	94.84490	RIM 909.37 TOC 909.14
MW-4 SW SW SE NW	2847.94	3948.42	37.17137	94.84531	RIM 909.73 TOC 909.27
MW-5 NW NW NE SW	2638.11	3913.39	37.17079	94.84524	RIM 908.72 TOC 908.33
MW-6 NW NW NE SW	2630.93	3831.21	37.17075	94.84496	RIM 909.19 TOC 908.77
MW-7 SW SW SE NW	2724.10	3952.74	37.17099	94.84536	RIM 908.26 TOC 907.74
MW-8 NW NW NE SW	2524.97	3817.98	37.17047	94.84493	RIM 908.36 TOC 907.96
MW-9 NW NW NE SW	2514.01	3691.12	37.17041	98.84447	RIM 910.42 TOC 910.02



WATER WELL RI		wWC-5		ision of Water			MW8		
X Original Record		nange in Well Ust	Resor	arces App. No.		Well ID			
	WATER WELL:	Fraction NW 1/4 NW 1/4	NE 1/4 SW 1/4	ľ	er Township Nur T 33		Number 3 X E W		
County Cheroke		First:		<u> </u>		<u>_</u>			
2 WELL OWNER: Last Name: First: Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here:									
Address: 1000 SW Jackson ~180' SE of 301 W Maple, Columbus, KS									
Address:	04-4 1/0	7ID. 66613							
City T 3 LOCATE WELL	Topeka State: KS  4 DEPTH O	ZIP: 66612   F COMPLETED WELL:	15 ft :	5 Latitude:	37,170	)47 (dec	cimal degrees)		
WITH "X" IN		water Encountered: 1)		Longitude	************************		cimal degrees)		
SECTION BOX:	2)	ft 3) ft, or 4) I	Ory Well		Datum:X WGS	84 NAD 8	3  NAD 27		
WELL'S STATIC WATER LEVEL: 4.21 ft. Source for Latitude/Longitude:									
	X below land surface, measured on (mo-day-yr) 11/16/15 GPS (unit make/model:) above land surface, measured on (mo-day-yr) (WAAS enabled? Yes No)								
NW NE	NW NE Pump test data: Well water was fit X Land Survey Topographic Map								
W	after	hours pumping		Online	Mapper				
X	[~	Water well was	fi _	C Plane	007.07	I C 11	I IV TOO		
SW —— SE		hours pumping	gpm	6 Elevation	907.96 ft Land Survey		vel X TOC Topographic Map		
		d:gpm meter:7.25 in to	ft and	Source	Other				
S	Bore Hole Blan	in to	fi	L1	~	***************************************			
1 mile		***************************************				····			
7 WELL WATER T		ter Supply: well ID	11	Oil Field V	Water Supply: leas	Δ			
1 Domestic: Household	rates and	g: how many wells?		1 Test Hole: wel					
Lawn & Garden				Cased	Uncased	Geotechnica	ıl		
Livestock		g: well ID MW8	1:	2 Geothermal: Ho	w many bores?				
2 Irrigation	_	Remediation: well ID		a) Closed Loc	· <u></u>		1		
3 Feedlot	Air Sparge		or	b) Open Loop	-:65	ischarge	1		
4 Industrial	Recovery	Injection		Other (spe	city):				
· -		to KDHE? Yes X	No If yes, dan	te sample was su	bmitted:				
Water well disinfected?	Yes X No								
8 TYPE OF CASIN		PVC Other in. to	CASING JOI	NTS: Glu	ed Clampled in. to		X Threaded		
Casing height above land	surface =0.4 in.	Weight	lbs./ft. Well t	thickness or gaug	ge No	······································	Ì		
TYPE OF SCREEN OF	R PERFORATION MATE								
	nless Steel Fibergl			other (Specify)					
	ranized Steel Concre		n hole)				l		
<del></del>	ATION OPENINGS ARE	<del></del>	. C	ed Holes					
Continuous Slot	Key Punched	•••	ch Cut Drille Cut None	L	Other (Specify	()			
SCREEN-PERFORATEI	INTERVALS: From	3 ft. to 15 ft.	From ft.	to	ft, From	ft. to	ft.		
GRAVEL PACK	INTERVALS: From 2	2.5 ft. to 15.5 ft,	From ft.	to	ft, From	ft. to	ft,		
9 GROUT MATERIAL		Cement grout X Bent		Concrete: 0-1'					
Grout intervals: From		ft, From ft. to		n ft.	to ft,	***************************************			
Nearest source of possil									
Septic Tank	Lateral Line	<u></u>	<del></del>	tock Pens	Insecticide	Storage	}		
Sewer Lines	Cess Pool	Sewage Lagoon		Storage	<b></b>	d Water Well			
Watertight Sewer L	ines Seepage Pi	t Feedyard	Fertil	izer Storage	Oil Well /	Gas Well			
	<del></del>								
Direction from well? NW		Distance from w	rell? ~230'		· <del>fi</del>				
Direction from well? NW	1 ITH	Distance from w	***************************************	ТО	ft	nt ) or DI LICCIN	C DETERVAL C		
		Distance from w	ell? ~230' FROM	ТО		nt.) or PLUGGIN	G INTERVALS		
Direction from well?   NW   10   FROM   TO   0.5   0.5   1	Topsoil Silty clay w/ brick		***************************************	ТО		nt.) or PLUGGIN	G INTERVALS		
Direction from well?   NW   10   FROM   TO   0.5   0.5   1   10	Topsoil Silty clay w/ brick Silty clay		***************************************	ТО		nt.) or PLUGGIN	G INTERVALS		
Direction from well?   NW   10   FROM   TO   0.5   0.5   1	Topsoil Silty clay w/ brick		***************************************	TO		nt.) or PLUGGIN	G INTERVALS		
Direction from well?   NW   10   FROM   TO   0.5   0.5   1   10	Topsoil Silty clay w/ brick Silty clay		***************************************	ТО		nt.) or PLUGGIN	G INTERVALS		
Direction from well?   NW   10   FROM   TO   0.5   0.5   1   10	Topsoil Silty clay w/ brick Silty clay		FROM						
Direction from well?   NW   10   FROM   TO   0.5   0.5   1   10	Topsoil Silty clay w/ brick Silty clay		FROM		LITHO. LOG (co				
Direction from well? NW  10 FROM TO  0 0.5  0.5 1  1 10  10 15.5	Topsoil Silty clay w/ brick Silty clay Weathered shale	DLOGIC LOG	FROM  Notes: KDH	E ID: Titian Ex	LITHO. LOG (co	); U3-011-1293	6		
Direction from well?   NW   10   FROM   TO   0   0.5   0.5   1   10   15.5   10   15.5   11   10   15.5   11   11   CONTRACTOR'S	Topsoil Silty clay w/ brick Silty clay Weathered shale		FROM  Notes: KDH	E ID: Titian Ex	LITHO. LOG (co	); U3-011-1293	6 Inder my		
Direction from well?   NW   10   FROM   TO   0   0.5   0.5   1   10   15.5   10   15.5   11   10   15.5   11   11   CONTRACTOR'S   jurisdiction and was com License No   75	Topsoil Silty clay w/ brick Silty clay Weathered shale  OR LANDOWNER'S CER pleted on (mo-day-year) This Water Wel	RTIFICATION: This water w 10/21/15 and this record is	Notes: KDH	E ID: Titian Ex	LITHO. LOG (co	); U3-011-1293	6 Inder my		
Direction from well?   NW   10   FROM   TO   0   0.5   0.5   1   1   10   15.5   10   15.5   11   11   CONTRACTOR'S jurisdiction and was comunicated by License No   7.5   12   13   14   15   15   15   15   15   15   15	Topsoil Silty clay w/ brick Silty clay Weathered shale  OR LANDOWNER'S CER pleted on (mo-day-year) This Water Wel of Larsen & Associates, In	RTIFICATION: This water w 10/21/15 and this record is ! Record was completed on (means).	Notes: KDH  ell was X contract to the best of poday-year) 12/2/1	E ID: Titian Exponstructed, my knowledge ar 5	press Lane (West	); U3-011-1293 plugged to the test of the	6 Inder my		
Direction from well?   NW   10   FROM   TO   0   0.5   0.5   1   1   10   15.5   10   15.5   11   10   15.5   11   11   CONTRACTOR'S jurisdiction and was complicated by the control of	Topsoil Silty clay w/ brick Silty clay Weathered shale  OR LANDOWNER'S CER pleted on (mo-day-year) This Water Wel of Larsen & Associates. In	RTIFICATION: This water w 10/21/15 and this record is	Notes: KDH  Notes: KDH  Ell was X contract to the best of a poday-year) 12/2/1  Sas Department of Hea	E ID: Titian Exponstructed, my knowledge ar 5 Signature	press Lane (West	plugged of the delication of t	6 Inder my		