	CORD Form WWC-5		sion of Water	Well ID MW18
X Original Record	Correction Change in Well Ust	Resour	rces App. No.	
1 LOCATION OF County Lyon	WATER WELL: Fraction SW ¼ NW ¼	NW 1/4 SE 1/4	Section Number	T 19 S R 11 X E W
2 WELL OWNER	Last Name: Cipra First: Richard	Street or Rural Ad	ddress where we	ll is located (if unknown, distance and direction
Business:		1		If at owner's address, check here:
Address: 23 Locus	t Ln	102 S Commercial St.	i, Emporia, KS	
Address: City Emporia	State: KS ZIP: 66801			
3 LOCATE WELL	4 DEPTH OF COMPLETED WELL:	38.6 ft 5	Latitude:	38.39626 (decimal degrees)
WITH "X" IN	Depth(s) Groundwater Encountered: 1)	ft	Longitude	96.18001 (decimal degrees)
SECTION BOX:	2) ft 3) ft, or 4)	Dry Well		Datum X WGS 84 NAD 83 NAD 27
N		NA ft.		Latitude/Longitude:
	below land surface, measured on (mo-d			init make/model:
NW NE	above land surface, measured on (mo-d Pump test data: Well water was	ay-yr)		AAS enabled? Yes No)
	after hours pumping		_	Mapper
W	Water well was	ft		
SW SE	after hours pumping	gpm 6		1134.25 ft Ground Level X TOC
SW - SE	Estimated Yield:gpm		Source X	Land Survey GPS Topographic Map
	Bore Hole Diameter: 7.25 in to	fi, and		Other
S	in toin	ft		
7 WELL WATER T				
1 Domestic:	5 Public Water Supply: well ID	10	Oil Field V	Vater Supply: lease
Household	6 Dewatering: how many wells?	11	Test Hole: well	ID
Lawn & Garden	7 Aquifer Recharge: well ID		Cased	Uncased Geotechnical
Livestock	8 X Monitoring: well ID MW18	12	Geothermal: How	
2 Irrigation	9 Environmental Remediation: well ID		a) Closed Loo	· <u> </u>
3 Feedlot	Air Sparge Soil Vapor Extrac	ctior	b) Open Loop	
4 lndustrial	Recovery Injection		Other (spec	city):
Was a chemical/bacterio	ogical sample submitted to KDHE? Yes X	No If yes, date	e sample was sui	bmitted:
Water well disinfected?	Yes X No			
8 TYPE OF CASIN	G USED: Steel X PVC Other	CASING JOIN	NTS: Glue	ed Clampled Welded X Threaded
Casing diameter 2	in to 18.6 ft. Diameter in	to π,	Diameter	in. to π ,
Casing height above land s	PERFORATION MATERIAL:	IOS./It. Went	inckness of gaug	e No
	less Steel Fiberglass X PVC	По	ther (Specify)	
	anized Steel Concrete tile None used (op		ine. (openis)	
1 — —	ATION OPENINGS ARE:	,		
Continuous Slot		orch Cut Drilled	d Holes	Other (Specify)
	Key Punched Wire Wrapped Sa	ıw Cut None	(Open Hole)	
	INTERVALS: From 18.6 ft. to 38.6 ft,	From ft.	to	ft, From ft. to ft,
SCICEEIV-LEIG OIGNIEC		_		
GRAVEL PACK	NTERVALS: From 16.6 ft. to 40.5 ft,	From ft.	to	ft, From ft, to ft,
GRAVEL PACK	NTERVALS: From 16.6 ft. to 40.5 ft,			
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From	NTERVALS: From 16.6 ft. to 40.5 ft, Neat cement Cement grout X Ber	ntonite X Other	Concrete: 0-0.5	,
GRAVEL PACK 9 GROUT MATERIAL	NTERVALS: From 16.6 ft. to 40.5 ft, 10.5 ft. to 16.6 ft. ft. 10.5 ft. to 16.6 ft. 10.5 ft. to 16.6 ft. 10.5 ft.	ntonite X Other	Concrete: 0-0.5	,
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From	NTERVALS: From 16.6 ft. to 40.5 ft, 10.5 ft. to 16.6 ft. ft. 10.5 ft. to 16.6 ft. 10.5 ft. to 16.6 ft. 10.5 ft.	ntonite X Other ft, From	Concrete: 0-0.5	,
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib	NTERVALS: From 16.6 ft. to 40.5 ft, Neat cernent	ntonite X Other ft, From Livest on X Fuel S	Concrete: 0-0.5 n ft. 1 tock Pens Storage	toft,
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possit Septic Tank	NTERVALS: From 16.6 ft. to 40.5 ft,	ntonite X Other ft, From Livest on X Fuel S	Concrete: 0-0.5 ft. 1 tock Pens	toft,
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib Septic Tank Sewer Lines Watertight Sewer L Other (Specity)	NTERVALS: From 16.6 ft. to 40.5 ft,	ntonite X Other ft, From Livest on X Fuel S Fertilit	Concrete: 0-0.5 n ft. 1 tock Pens Storage	Insecticide Storage Abandoned Water Well Oil Well / Gas Well
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib Septic Tank Sewer Lines Watertight Sewer L	NTERVALS: From 16.6 ft. to 40.5 ft, Neat cement Cement grout X Bet 0.5 ft. to 16.6 ft, From ft. to 16 contamination: Lateral Lines Pit Privy Cess Pool Sewage Lagod Feedyard Distance from	ntonite X Other ft, From Livest on X Fuel S Fertilit	Concrete: 0-0.5 n ft. 1 tock Pens Storage	toft,
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib Septic Tank Sewer Lines Watertight Sewer L Other (Specity) Direction from well? N 10 FROM TO	NTERVALS: From 16.6 ft. to 40.5 ft, Neat cement Cement grout X Bet 0.5 ft. to 16.6 ft, From ft. to 16 contamination: Lateral Lines Pit Privy Cess Pool Sewage Lagor Seepage Pit Feedyard Distance from LITHOLOGIC LOG	ntonite X Other ft, From Livest on X Fuel S Fertilit	Concrete: 0-0.5 n ft. 1 tock Pens Storage	Insecticide Storage Abandoned Water Well Oil Well / Gas Well
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib Septic Tank Sewer Lines Watertight Sewer L Other (Specity) Direction from well? N 10 FROM TO 0 0.5	Neat cernent	ntonite X Other ft, From Livest on X Fuel S Fertilit well? ~625	Concrete: 0-0.5 n ft. 1 tock Pens Storage izer Storage	toft, Insecticide Storage Abandoned Water Well Oil Well / Gas Well ft
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib Septic Tank Sewer Lines Watertight Sewer L Other (Specity) Direction from well? N 10 FROM TO 0 0.5 0.5 30	Neat cement	ntonite X Other ft, From Livest on X Fuel S Fertilit well? ~625	Concrete: 0-0.5 n ft. 1 tock Pens Storage izer Storage	toft, Insecticide Storage Abandoned Water Well Oil Well / Gas Well ft
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib Septic Tank Sewer Lines Watertight Sewer L Other (Specity) Direction from well? N 10 FROM TO 0 0.5	NTERVALS: From 16.6 ft. to 40.5 ft, : Neat cement Cement grout X Bet 0.5 ft. to 16.6 ft, From ft. to 16.6 ft. to 40.5 ft, From ft. to 16.6 ft. to 16.6 ft. to 16.6 ft. to 16.6 ft. From ft. Fro	ntonite X Other ft, From Livest on X Fuel S Fertilit well? ~625	Concrete: 0-0.5 n ft. 1 tock Pens Storage izer Storage	toft, Insecticide Storage Abandoned Water Well Oil Well / Gas Well ft
GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib Septic Tank Sewer Lines Watertight Sewer L Other (Specity) Direction from well? N 10 FROM TO 0 0.5 0.5 30 30 35	Neat cement	ntonite X Other ft, From Livest on X Fuel S Fertilit well? ~625	Concrete: 0-0.5 n ft. 1 tock Pens Storage izer Storage	toft, Insecticide Storage Abandoned Water Well Oil Well / Gas Well ft
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GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possib Septic Tank Sewer Lines Watertight Sewer L Other (Specity) Direction from well? N 10 FROM TO 0 0.5 0.5 30 30 35	NTERVALS: From 16.6 ft. to 40.5 ft, : Neat cement Cement grout X Bet 0.5 ft. to 16.6 ft, From ft. to 16.6 ft. to 40.5 ft, From ft. to 16.6 ft. to 16.6 ft. to 16.6 ft. to 16.6 ft. From ft. Fro	ntonite X Other ft, From Livest on X Fuel S Fertilities well? ~625	Concrete: 0-0.5 n ft. 1 tock Pens Storage izer Storage	toft, Insecticide Storage Abandoned Water Well Oil Well / Gas Well ft
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GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possit Septic Tank Sewer Lines Watertight Sewer L Other (Specity) Direction from well? N 10 FROM TO 0 0.5 0.5 30 30 35 35 40.5	NTERVALS: From 16.6 ft. to 40.5 ft, Neat cement	ntonite X Other ft, From Livest on X Fuel S Fertilit well? ~625 Notes: KDHI	Concrete: 0-0.5 n ft. 1 tock Pens Storage izer Storage TO E ID: Cipra Oil	Insecticide Storage Abandoned Water Well Oil Well / Gas Well ft LITHO LOG (cont.) or PLUGGING INTERVALS Company; U3-056-13957
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GRAVEL PACK 9 GROUT MATERIAL Grout intervals: From Nearest source of possit Septic Tank Sewer Lines Watertight Sewer L Other (Specity) Direction from well? N 10 FROM TO 0 0.5 0.5 30 30 35 35 40.5 11 CONTRACTOR'S jurisdiction and was com License No 75	NTERVALS: From 16.6 ft. to 40.5 ft, : Neat cement Cement grout X Bet 0.5 ft. to 16.6 ft, From ft. to le contamination: Lateral Lines Pit Privy Cess Pool Sewage Lagoo Seepage Pit Feedyard Distance from	ntonite X Other ft, From Livest on X Fuel S Fertilit well? ~625 Notes: KDHI well was X could is true to the best of m mo-day-year) 8/8/16	Concrete: 0-0.5 n ft. 1 tock Pens Storage izer Storage TO E ID: Cipra Oil Instructed, ny knowledge an	Insecticide Storage Abandoned Water Well Oil Well / Gas Well ft LITHO. LOG (cont.) or PLUGGING INTERVALS Company; U3-056-13957
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DENNIS L HANDKE

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

Jessica Chapman Larsen & Associates 1311 E. 25th Street, Suite B Lawrence, Kansas, 66046 July 30, 2016 Revised August 11, 2016

RE: Monitor Well Elevation Survey 2 Commercial St., Emporia, Kansas Proj. 16-00L Capra Oil Company KDHE ID U3-056-13957

Bench Mark: Chisled Sq. on SW Corner of concrete slab South of the Southwest corner of building. Elev: 1137.81 North 2690.23 West 2538.43 (from SE Cor. Sec.15-19-11E)

MW-4R	rim	1138.41	North	2763.75	SE1/4, SE1/4,SE1/4,NW1/4
	top pipe	1138.06	West	2694.76	Lat= 38.39808 Long = 96.18039
MW-15R	rim	1137.73	North	2612.43	NE1/4, NE1/4,NE1/4,SW1/4
	top pipe	1137.42	West	2763.47	Lat= 38.39766 Long = 96.18063
MW-16R	rim	1136.63	North	2416.21	NE1/4, NE1/4,NE1/4,SW1/4
	top pipe	1136.30	West	2744.09	Lat= 38.39712 Long = 96.18056
MW-18	rim	1134.52	North	2102.31	SW1/4, NW1/4,NW1/4,SE1/4
	top pipe	1134.25	West	2608.60	Lat= 38.39626 Long = 96.18001
MW-19	rim	1133. 80	North	1848.09	NW1/4, SW1/4, NW1/4, SE1/4
	top pipe	1133.47	West	2608.43	Lat= 38.39556 Long = 96.18009

Elevation derived from existing project.

Lat & Long derived from Emporia 7.5 Quad Map WGS84.

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