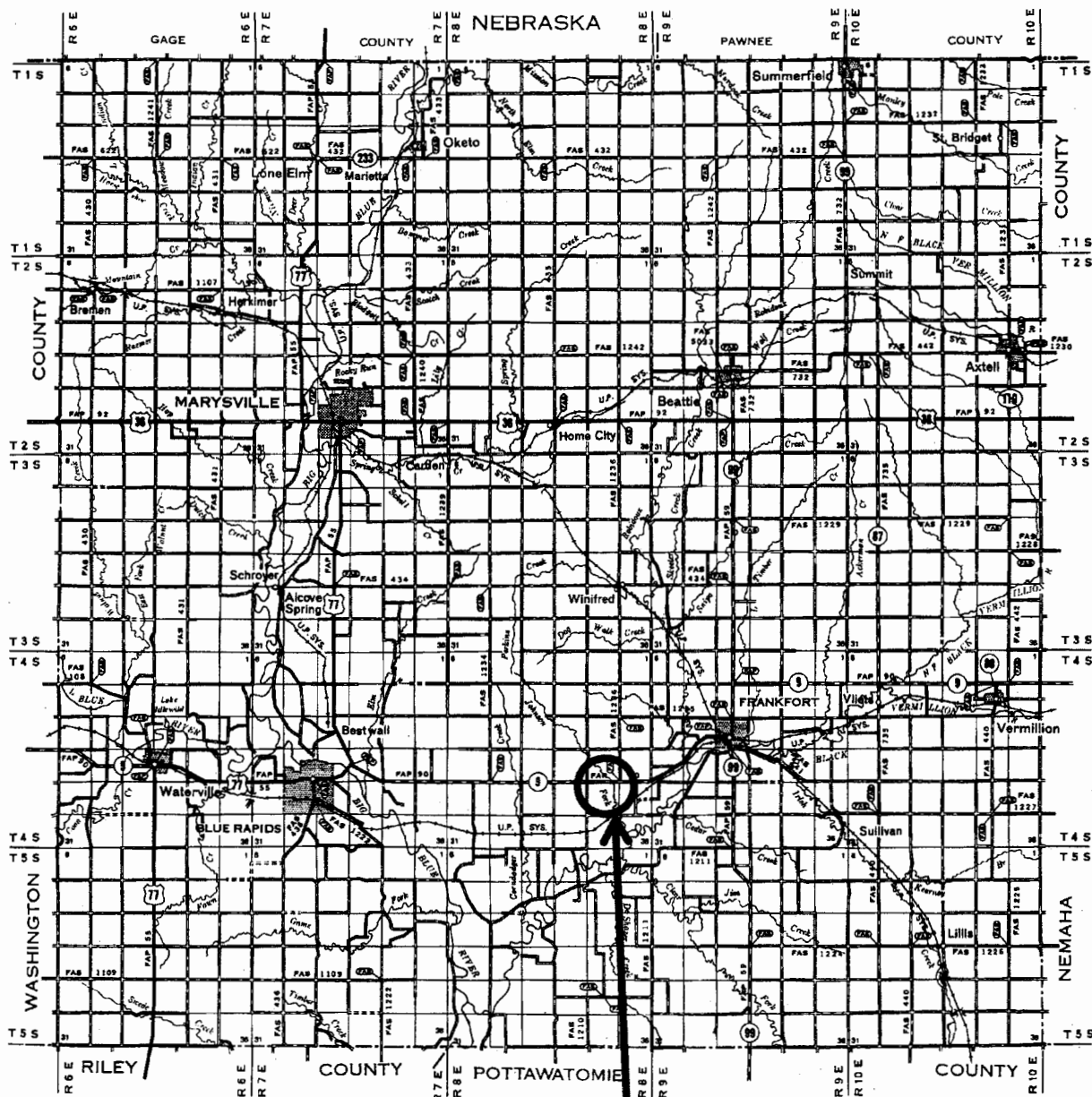




9-58 K-7427-01

K-9 Over Johnson Fork Creek

Marshall County

CD 01

N: 39.681993 E: -96.485183 (Approximate)

SW 1/4, SE 1/4, SE 1/4, Sect 23, T4S, R8E

6/28/2004



KANSAS DEPARTMENT OF TRANSPORTATION

1.82

RTE./CO. 9-58	SOUNDING NO. 1	SHEET 1 OF 2
BRIDGE STA 10+540.700	PROJ. NO. K-7427-01	BRIDGE NO. 9-58-18.04(054)
SITE NAME K9 over Johnson Fork Creek		HOLE STA. 10+531.2, 14.8m + 1
GEOLOGIST David Schmidt	SCALE: 1:100 (10mm = 1 Meter)	DATE 6/28/04
DRILLER Rob Veruynick	RIG TYPE B-61	TOP HOLE ELEV. 352.05
GROUNDWATER ELEV 347.14	TOTAL DEPTH 22.83	M/B ELEV. 341.23

BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION ϕ_u (kPa)	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV
				352	352.05			352
				351				351
				350		140	349.67	350
				349				349
				348				348
				347				347
				346				346
				345				345
				344		390	343.64	344
				343				343
				342				342
			10.82	341	341.23			341
				340	Shale, bluish-grey, slightly micaceous.			340
			12.80	339	339.25	N/A	339.37	339
				338	Dolomite, slightly argillaceous, pitted, recrystallized dolomite in void spaces, grey, vuggy	910	339.00	338
			14.54	337	337.51	18300	337.22	337
				337	Shale, dark grey-black, fissile, low grade coal, pyrite, arborescent brachiopods			337

Bennet Shale Member

		SOUNDING NO. 1		PROJECT NO. K-7427-01		SHEET 2 OF 2		
DATE 6/28/04		RTE./CO. 9-58		TOTAL DEPTH 22.83		THE 352.05		
BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV
Glenck Ls Mbr. Benner Sh. Mbr. Johnson Shale Formation			10.46	336	Bennet shale Mon. cont. Dark grey-black, low grade coal, pyrite.	N/A	336.87	
			16.79	335.59		N/A	335.62	
			17.37	335.26	Limestone, grey, firm, fusulinids, argillaceous	55700	335.38	
			18.29	334.68	Limey shales, shales, grey, crumbly.	17800	334.98	
			18.56	334	Shale, limey, light grey-grey	19900	334.07	
				333.76				
				333.49	Shale, micaceous-grey, crumbly, slightly fossiliferous			
				333	Shale, blue-green, firm, slightly calcareous.	10500	332.97	
				332		15100	332.51	
				331		5200	331.96	
Long Creek Limestone Member			22.01	330	330.04	11400	330.17	
			22.83		Limestone, tan, grey to brown-grey, slightly argillaceous, some fossil debris, minor chert at base. Sand at very top.	19700	329.40	