



59-23 K-7888 US-59 over US-56

Bridge No. 59-23-3.02(112)NB, (113)SB

Douglas County

CD 01

N: 39.844391 E: -95.683017

SW ¼, SW1/4, SE1/4, Section 35, T14S, R19E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	59-23	SOUNDING NO.	CD *1
BRIDGE STA.	259+34.16 S.B. 259+32.51 N.B.	PROJ. NO.	K-7588-01
SITE NAME	US-59 over US-56		HOLE STA. 260-05.54; 2.6' RI.
GEOLOGIST	R. Crow	SCALE	1 unit = 2 feet
DRILLER	J. Burns	RIG TYPE	CME-75
DATE	June 21, 2004		TOP HOLE ELEV. 1013.83
DN ELEV. <i>H</i>	9/6.13	TOTAL DEPTH	93.2
		M/B ELEV.	1009.83

BIT TYPE	GEOLOGIC MEMBER	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	Shaft 5.0 Segments	UNCONFINED COMPRESSION (tsf)	ELASTIC MODULUS (tsf)	ELEVATION
			0.00		T.H.E. - 1013.83				
8" Hollow Stem Augurs	Soft Mantle		1.00	1013	1012.83 Silty clay, tan.				
				1011	1010.83 Silty sand, tan.				
			4.00	1009	1009.83 Sandstone, fine-grained, very shaley, tan/gray.				
				1007					
			8.70	1005	1005.13 Sandstone, fine-grained, very shaley, tan/gray w/ ironstone concretions, olive-gray, 45 degree shear planes.				
				1003					
			13.50	1001	1000.33 Shale, very fine sandy, x-bedded, more gray w/ tan.		19.2	990	1006.80
				999					
				997					
			18.20	995	995.63 Shale, sandy, tan-olive.		5.25	346	1001.20
				993					
			20.30	991	993.53 Sandstone, tan, iron stains, few fines.				
				989					
			23.20	987	990.63 Sandstone, tan, weak, unconsolidated, much washed away, wet.				
				985					
			28.20				54.0	18050	991.80



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	59-23	SOUNDING NO.	CD #1
BRIDGE STA.	259+34.15 S.B. 259+32.51 N.B.	PROJ. NO.	K-7888-01
SITE NAME	US 59 over US-56		SHEET 2 OF 4
		BRIDGE NO.	59-23-3.02(113) 59-23-3.01(112)
		HOLE STA.	260+05.54; 2.6' RT.

BIT TYPE	GEOLOGIC MEMBER	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	SOFT 5.0 SEGMENTS	UNCONFINED COMPRESSION (tsf)	ELASTIC MODULUS (tsf)	ELEVATION
	N02 Diamond Ireland Sandstone Member			983	Sandstone, tan w/ black mottles, iron stains throughout, micaceous, material more firm.				
		5	33.20	981	980.63		89.0	16000	981.40
				979	Sandstone, tan, small iron mottles & iron stains throughout. Oil zone @ 33.8' to 34.2' (980.0' to 979.6').				
		7	38.20	977	975.63		32.7	7000	976.00
				975	Sandstone, clean, tan, iron stains, micaceous.				
		8	43.20	973	970.63		28.6	8700	972.20
				971	Sandstone, clean, tan, iron stains, micaceous.				
		9	48.20	969	965.63		4.0	940	966.50
				967	Sandstone, clean, fractured along bedding planes, tan, iron stains, black iron mottles.				
		10	53.20	965	960.63		74.5	14700	960.90
				963	Sandstone, clean, tan and gray, iron stains and mottles, cross-bedded.		94.0	18900	959.70
		11	58.20	961	955.63		25.8	7150	954.50
			959	Sandstone, tan to gray, clean, iron stained, black iron mottles. Gray shale filled iron concretions @ 59.4' and 61.8'.					
	12		957	953					
			955	951					



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	59-23	SOUNDING NO.	CD #1	SHEET 3 OF 4
BRIDGE STA.	259+34.16 S.E. 259+32.51 N.E.	PROJ. NO.	K-7888-01	BRIDGE NO. 59-23-3.02(113) 59-23-3.01(112)
SITE NAME	US-59 over US-55			HOLE STA. 260-05.54:2.6' RT.

BIT TYPE	GEOLOGIC MEMBER	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	Shot 5.0 Segments	UNCONFINED COMPRESSION (tst)	ELASTIC MODULUS (tst)	ELEVATION
	NO2 Diamond Ireland Sandstone Member	12	63.20	949.63	Sandstone, clean, gray to tan, mostly gray w/ iron stain - black streaks (carbon?).	█	54.5	7700	949.80
		13		947					
		14	68.20	945.63	Sandstone, clean, gray, hard.	█	39.2	6650	945.10
		15	73.20	941.63	Sandstone, cut all one piece, clean, hard, gray.	█	79.0	22150	940.00
		16	78.20	935.63	Sandstone, cut all one piece, clean, hard, gray.	█	110	21850	932.90
		17	83.20	931.63	Sandstone, clean, gray, carbonaceous, x-bedded towards base.	█	107	25400	926.60
		18	88.20	925.63	Sandstone, clean, gray, rare occasional carbonaceous flecks.	█	37.9	1775	923.60
			93.20	921.63					
				919					
				917					



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	59-23	SOUNDING NO.	CD *1	SHEET 4 OF 4
BRIDGE STA.	259-34.16 S.B. 259-32.51 N.B.	PROJ. NO.	K-7888-01	BRIDGE NO. 59-23-3.02(113) 59-23-3.01(112)
SITE NAME	US-59 over US-56			HOLE STA. 260+05.54; 2.6' RT.

BIT TYPE	GEOLOGIC MEMBER STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (lbf)	ELASTIC MODULUS (lbf)	ELEVATION																																																																																																																																												
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