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MCRCO KANSAS CITY
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MEMORANDUM AND U S AIR FORCE RESPONSE TO MISSOURI DEPARTMENT OF
NATURAL RESOURCES COMMENTS REGARDING PRELIMINARY ASSESSMENT/SITE
INSPECTION OF SITE SS009 KANSAS CITY MO
8/16/1995
AIR FORCE BASE CONVERSION AGENCY

DEPARTMENT OF THE AIR FORCE
AIR FORCE BASE CONVERSION AGENCY

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16-Aug-95

MEMORANDUM FOR MDNR (Glenn Golson)

FROM: OL Q, AFBCA (Mark Esch)
15471 Hangar Road
Kansas City, MO 64147-1220

SUBJECT: PA/SI at the IRP Site, Fire Valve Area

1. Thank you for the MDNR comments provided in your 7 Aug 95 letter, on the document titled *Preliminary Assessment/Site Inspection of IRP site SS009, Richards-Gebaur AFB, MO*. Below are a few of my responses to your concerns. Comments which require our consultants reply will be responded to at a later date.

MDNR general comment on FSB8 and FSB18

We have requested Tetra Tech to respond to this general comment.

MDNR comment for section 1.5, page 8

We believe our consultant used the *IRP Records Search, 1983*, for some of the geology data. Figure 1.5-1 notes a thickness of 65 feet (Atch 1) for the Lane Formation. Compare to the 20 to 60 foot thickness range presented in *Geology of the Belton Quadrangle, 1984 (Atch 2)*. We have requested Tetra Tech to verify that the uppermost sandstone (a cross-bedded riverbed deposit) could not be present due to the construction of the Civil Engineering compound on an eroded surface of the Lane Formation. The ground surface in the Civil Engineering compound is about 1008 feet above MSL according to a 1973 aerial topographical survey (Atch 3). The top of the Raytown Limestone Member (Iola Formation) was encountered at 13 to 15 feet below ground surface in construction borings for the Clinic (Building 603). This places the top of the Raytown Limestone Member around an elevation of 994 feet above mean sea level (MSL) in the vicinity of Site SS009. This would place the uneroded thickness of the Lane Formation around 14 feet. The auger refusal combined with chert and limestone fragments indicates auger refusal in or near the weathered surface of the Raytown Limestone Member. We have requested Tetra Tech to verify this assessment.

*MDNR comment for Figure 1.5-3, page 12**MDNR comment for section 2.1.1, page 18, paragraph 2**MDNR comment for section 2.4, page 26, last paragraph**MDNR comment for section 2.5, page 27**MDNR comment for Figure 2.5-2, page 29**MDNR comment for section 3.1.4, page 35-36**MDNR comment for section 3.0, page 32*

We will reply to your concerns for the comments listed above based on Tetra Tech's response as soon as it is made available to us.

2. I can be reached at (816) 348-25114, x28 if you have any questions about these responses, or when the remaining responses can be expected.



P. Mark Esch
BRAC Environmental Coordinator

cc:

1. EPA (Bob Koke)
2. MDNR (Bob Geller)
3. AFCEE (Fred Waterman)

Attachments

1. Record Search, Section 3, Table 3
2. Stratigraphic Section from *Geology of the Belton Quadrangle*
3. Aerial Topographic Map

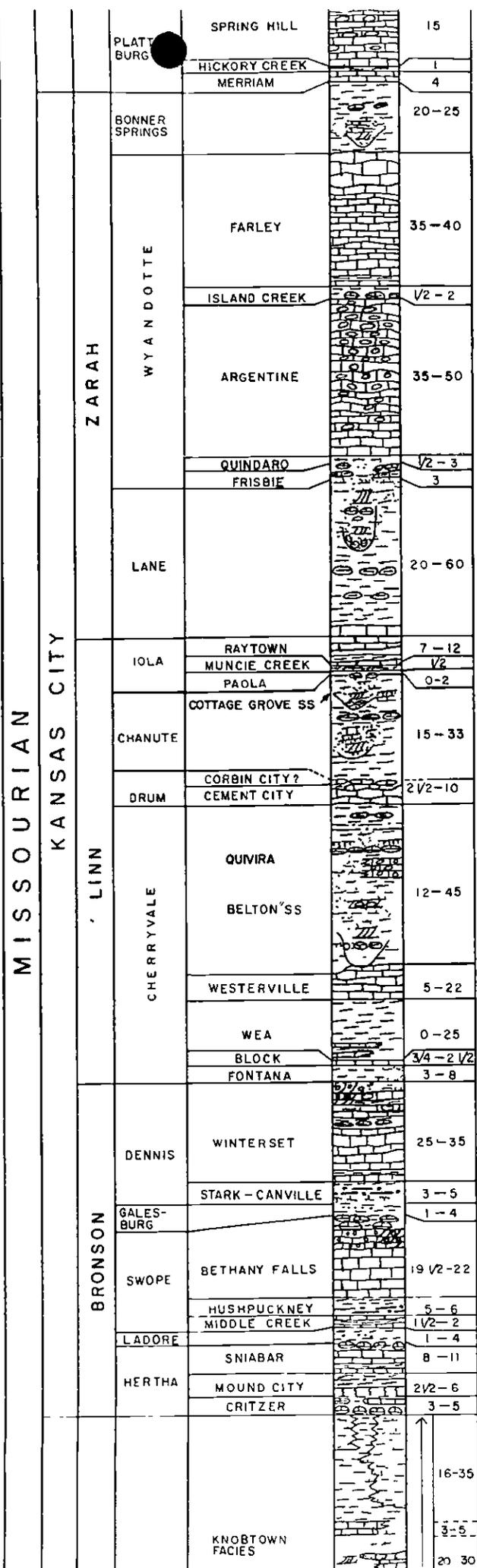
Table 3
GENERALIZED GEOLOGIC SECTION
AT RICHARDS-GEBAUR AFB^a

System	Group	Formation	Thickness (Approx.) in Feet	Depth to Top of Unit ^b	Physical Characteristics
Quaternary	Alluvium	--	50	--	
	Loess	--	2	--	
Pennsylvanian	Kansas City	Wyandotte	50	--	Limestone (Argentine)
		Lane	65	0	Shale
		Iola	10	65	Limestone (Raytown)
		Chanute	32	75	Shale
		Drum	2	107	Limestone
		Cherryville	17	109	Shale
		Dennis	15	126	Limestone (Winterset)
		Galesburg	3	141	Shale
		Swope	22	144	Limestone (Bethany Falls)
		Ladore	4	166	Shale
	Hertha	15	170	Limestone	
	Pleasanton	--	150	185	Shale, Siltstone, and Sandstone; Gas-bearing, lower units
	Marmaton	--	125	335	Shale, sandstone, limestone, coal, and clay; Gas-bearing
	Cherokee	--	520	460	Sandstone, shale, limestone, siltstone, coal, and clay; Gas-bearing, upper units
	Mississippian	Keokuk-Burlington	--	330	980
Chouteau (Kinderhook)		--	115	1,310	Siltstone, limestone, shale
Ordovician	--	Joachim	60	1,425	Dolomite (limestone)
	--	St. Peter	65	1,485	Sandstone
	--	Jefferson City	320	1,550	Dolomite (limestone)
	--	Roubidoux	20	1,870	Sandstone
	--	Gasconade	450	1,890	Dolomite (limestone), sandstone
Cambrian	Undifferentiated	--	150	2,340	Dolomite (limestone), shale
	--	Lamotte	100	2,490	Sandstone
Precambrian	Undifferentiated	--	--	2,590	Granite (igneous rocks)

^aComposite section from following sources: Master Plan, Richards-Gebaur AFB, Tab C; Missouri Division of Geology, Volume 14; Missouri Division of Geology, Volume 43; Missouri Division of Geology, Vol. 6.

^bBeneath top of Lane Shale

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EXPOSED ROCK UNITS
(DESCRIPTION IN TEXT)

CANVILLE MBR REPRESENTED BY ONE INCH OF DK GRAY-FOSS SHALE AT BOTTOM SANDY IN WESTERN PARTS OF QUADRANGLE

BLuish-GRAY, HARD LS, BRYOZOANS

DOLOMITIC LS

COAL (OVID), 0 TO 3 INCHES

BRACHIOPODS, CRINOID OSSICLES

ATCH 2

