31—MISCELLANEOUS MAP ELEMENTS

31.1 Township and range line—Definite 31.2 Township and range line—Location approximate 31.3 Township label 31.4 Range label 31.5 Section line—Definite 31.6 Section line—Location approximate 31.7 Section number 31.8 Map neatline—Showing latitude or longitude tick and value 31.9 Map neatline—Showing latitude or longitude tick and value 31.10 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (2nd option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (2nd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop (4th option) 31.19 Area of outcrop (4th option) 31.10 Area of outcrop (4th option) 31.11 Area of outcrop (4th option) 31.12 Area of outcrop (4th option) 31.13 Area of outcrop (4th option) 31.14 Area of outcrop (4th option) 31.15 Area of outcrop (and option) 31.16 Area of outcrop (4th option) 31.17 Area of outcrop in surficial deposits (1st option) 31.18 Area of outcrop in surficial deposits (1st option) 31.19 Area of outcrop in surficial deposits (1st option) 31.10 Area of outcrop in surficial deposits (1st option) 31.10 Area of outcrop in surficial deposits (2nd option)		31—WISCELLANEOUS WAP		ELEMENIS	
31.1 Township and range line—Location approximate 31.2 Township label 31.3 Township label 31.4 Range label 31.5 Section line—Definite 31.6 Section line—Location approximate 31.7 Section number 31.8 Map neatline 31.9 Map neatline 31.9 Map neatline 31.10 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Area of outcrop (3rd option) 31.14 Area of outcrop (3rd option) 31.15 Area of outcrop (3rd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop (4th option) 31.19 Area of outcrop (4th option) 31.10 Area of outcrop (4th option) 31.11 Area of outcrop (3rd option) 31.12 Area of outcrop (4th option) 31.13 Area of outcrop (3rd option) 31.14 Area of outcrop (3rd option) 31.15 Area of outcrop (3rd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (3rd option) 31.18 Area of outcrop (3rd option) 31.19 Area of outcrop (3rd option) 31.10 Area of outcrop is sufficial deposite (1st option) 31.11 Area of outcrop is sufficial deposite (1st option) 31.12 Area of outcrop is sufficial deposite (1st option) 31.13 Area of outcrop is sufficial deposite (1st option) 31.14 Area of outcrop is sufficial deposite (1st option) 31.15 Area of outcrop is sufficial deposite (1st option) 31.16 Area of outcrop is sufficial deposite (1st option) 31.17 Area of outcrop is sufficial deposite (1st option) 31.18 Area of outcrop is sufficial deposite (1st option)	REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS*	NOTES ON USAGE*
31.2 Township and range line—Location approximate 31.3 Township label 31.4 Range label 31.5 Section line—Definite 31.6 Section line—Location approximate 31.7 Section number 31.8 Map neatline—Showing latitude or longitude tick and value 31.9 Map neatline—Showing latitude or longitude tick and value 31.10 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (2nd option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (2nd option) 31.17 Area of outcrop (3rd option) 31.18 Area of outcrop (4th option) 31.19 Area of outcrop (4th option) 31.10 Area of outcrop (4th option) 31.11 Area of outcrop (4th option) 31.12 Area of outcrop (4th option) 31.13 Area of outcrop (4th option) 31.14 Area of outcrop (4th option) 31.15 Area of outcrop (3rd option) 31.16 Area of outcrop (4th option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop is urficial deposits (1st option) 31.19 Area of outcrop is urficial deposits (1st option) 31.10 Area of outcrop is urficial deposits (1st option) 31.11 Area of outcrop is urficial deposits (1st option) 31.12 Area of outcrop is urficial deposits (1st option) 31.13 Area of outcrop is urficial deposits (1st option)	31.1	Township and range line—Definite		line and text color 100% red lineweight .275 mm H-7 R 44 E lineweight .15 mm 6 5 T 32 N	On smaller scale maps (for example, 1:100,000 scale), usually only cor- ner sections (nos. 1, 6, 31, 36) are numbered (type size may be de- creased if necessary). Every township and
31.1 Township label T32 N R44 E T32 N R44 E T32 N R44 E T32 N T33 N T34 Area of outcrop (3rd option) T34 Area of outcrop (4th option) T34 Area of outcrop (4th option) T34 Area of outcrop in surficial deposits (1st option) T34 Area of outcrop in surficial deposits (1st option) T34 Area of outcrop in surficial deposits (1st option)	31.2	Township and range line—Location approximate			
31.6 Section line—Location approximate 31.6 Section number 31.7 Section number 31.8 Map neatline 31.9 Map neatline—Showing latitude or longitude tick and value 31.10 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop (4th option) 31.19 Area of outcrop (4th option) 31.10 Area of outcrop in surficial deposits (1st option) 31.11 Area of outcrop in surficial deposits (1st option) 31.12 Area of outcrop in surficial deposits (1st option) 31.13 Area of outcrop in surficial deposits (1st option) 31.14 Area of outcrop in surficial deposits (1st option) 31.15 Area of outcrop in surficial deposits (1st option) 31.16 Area of outcrop in surficial deposits (1st option) 31.17 Area of outcrop in surficial deposits (1st option)	31.3	Township label	T 32 N		
31.5 Section line—Definite 31.6 Section line—Location approximate 31.7 Section number 31.8 Map neatline 31.9 Map neatline 31.9 Map neatline—Showing latitude or longitude tick and value 31.10 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (3rd option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (4th option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop (4th option) 31.19 Area of outcrop in surficial deposits (1st option) 31.10 Area of outcrop in surficial deposits (1st option) 31.11 Area of outcrop in surficial deposits (1st option) 31.12 Area of outcrop in surficial deposits (1st option) 31.13 Area of outcrop in surficial deposits (1st option) 31.14 Area of outcrop in surficial deposits (1st option) 31.15 Area of outcrop in surficial deposits (1st option) 31.16 Area of outcrop in surficial deposits (1st option) 31.17 Area of outcrop in surficial deposits (1st option)	31.4	Range label	R 44 E		
31.8 Section line—Location approximate 31.7 Section number 5 Section number 5 Inneweight 25 mm. 31.8 Map neatline 31.9 Map neatline—Showing latitude or longitude tick and value 31.0 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (3rd option) 31.18 Area of outcrop (4th option) 31.19 Area of outcrop in surficial deposits (1st option) 31.10 Area of outcrop in surficial deposits (1st option) 31.11 Area of outcrop in surficial deposits (1st option) 31.12 Area of outcrop in surficial deposits (1st option) 31.13 Area of outcrop in surficial deposits (1st option) 31.14 Area of outcrop in surficial deposits (1st option)	31.5	Section line—Definite			scale, should be num- bered.
31.8 Map neatline 31.9 Map neatline—Showing latitude or longitude tick and value 31.10 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) 31.19 Area of outcrop in surficial deposits (1st option) 31.10 Area of outcrop in surficial deposits (1st option) 31.11 Area of outcrop in surficial deposits (1st option) 31.12 Area of outcrop in surficial deposits (1st option) 31.13 Area of outcrop in surficial deposits (1st option) 31.14 Area of outcrop in surficial deposits (1st option) 31.15 Area of outcrop in surficial deposits (1st option) 31.16 Area of outcrop in surficial deposits (1st option)	31.6	Section line—Location approximate		lineweight .275 mm; dash length 2.5 mm;	50% black, especially if contours or other basemap information is
31.8 Map neatline 31.9 Map neatline—Showing latitude or longitude tick and value 31.10 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop in surficial deposits (1st option) 31.18 Area of outcrop in surficial deposits (1st option) 31.19 Map neatline—Showing latitude or longitude tick 40°37′30°	31.7	Section number	5	space .5 mm	shown in 50% black (see Section 30.1).
31.9 Map neatline—Showing latitude or longitude tick and value 31.10 Cross section line and label 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) 31.18 Area of outcrop in surficial deposits (1st option) 31.19 Area of outcrop in surficial deposits (2nd option) 31.10 Area of outcrop in surficial deposits (2nd option) 31.11 Area of outcrop in surficial deposits (2nd option) 31.12 Area of outcrop in surficial deposits (2nd option) 31.13 Area of outcrop in surficial deposits (2nd option) 31.14 Area of outcrop in surficial deposits (2nd option) 31.15 Area of outcrop in surficial deposits (2nd option) 31.16 Area of outcrop in surficial deposits (2nd option)	31.8	Map neatline			
31.10 Cross section line and label A A TBI-12 31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) 31.19 Area of outcrop in surficial deposits (2nd option) 31.10 Area of outcrop in surficial deposits (2nd option) 31.11 Area of outcrop in surficial deposits (2nd option) 31.12 Area of outcrop in surficial deposits (2nd option) 31.13 Area of outcrop in surficial deposits (2nd option) 31.14 Area of outcrop in surficial deposits (2nd option) 31.15 Area of outcrop in surficial deposits (2nd option) 31.16 Area of outcrop in surficial deposits (2nd option) 31.17 Area of outcrop in surficial deposits (2nd option) 31.18 Area of outcrop in surficial deposits (2nd option)	31.9		40°37'30"	40°37'30"	
31.11 Leader 31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) 31.19 Area of outcrop in surficial deposits (2nd option) 31.10 Area of outcrop in surficial deposits (2nd option) 31.11 Area of outcrop in surficial deposits (2nd option) 31.12 Area of outcrop in surficial deposits (2nd option) 31.13 Area of outcrop in surficial deposits (2nd option) 31.14 Area of outcrop in surficial deposits (2nd option)	31.10	Cross section line and label	AA'	AA	
31.12 Map-unit label (add leader where necessary) 31.13 Map-unit label containing geologic age character (add leader where necessary) 31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) 31.19 Area of outcrop in surficial deposits (2nd option) 31.10 Area of outcrop in surficial deposits (2nd option)	31.11	Leader			
31.13 (add leader where necessary) Rig FG-8 Rig FG-8 Patterns show print other may be act (use scratch boundary lineweight 0.0 mm) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) 31.19 Area of outcrop in surficial deposits (2nd option)	31.12	Map-unit label (add leader where necessary)		lineweight .15 mm] [leader lineweight .175 mm]	
31.14 Area of outcrop (1st option) 31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (2nd option) 31.19 Area of outcrop in surficial deposits (2nd option) 31.10 Area of outcrop in surficial deposits (2nd option) 31.11 Area of outcrop in surficial deposits (2nd option) 31.12 Area of outcrop in surficial deposits (2nd option)	31.13			FG-6 → Rà) \ (or H-8)	
31.15 Area of outcrop (2nd option) 31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) 21.10 Area of outcrop in surficial deposits (2nd option) 21.11 Area of outcrop in surficial deposits (2nd option)	31.14	Area of outcrop (1st option)	4	100% black	Patterns should over- print other map units. Do not outline with con-
31.16 Area of outcrop (3rd option) 31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) pattern 134-K	31.15	Area of outcrop (2nd option)		scratch 50% black [lineweight 0.0 mm]	tact (use scratch boundary instead). May be shown in other
31.17 Area of outcrop (4th option) 31.18 Area of outcrop in surficial deposits (1st option) pattern 134-K	31.16	Area of outcrop (3rd option)	-4		COIOIS.
31.18 Area of outcrop in surficial deposits (1st option) pattern 134-K	31.17	Area of outcrop (4th option)	4		
31.10 Area of outcrop in surficial deposits (2nd ontion)	31.18	Area of outcrop in surficial deposits (1st option)	r Indian	134-K	
in 50% black	31.19	Area of outcrop in surficial deposits (2nd option)		134-K in 50%	
31.20 Area of outcrop in surficial deposits (3rd option)	31.20	Area of outcrop in surficial deposits (3rd option)			
Sample locality—Showing sample number • 98-103 • 98-103 dot diameter 1.25 mm May be shown other colors.	31.21	Sample locality—Showing sample number	● 98-103	·	May be shown in red or other colors.
Field station locality, as shown on small-scale maps or on page-size illustrations field station locality, as shown on small-scale maps of or on page-size illustrations dot diameter .5 mm	31.22		•	dot diameter .5 mm	
31.23 Chronostratigraphic zone, chronozone, or stage boundary or other colors	31.23			.5 mm; spacing	May be shown in black or other colors. Names may either be
Chronostratigraphic-zone, chronozone, or stage Aptian Aptian Aptian H-8 boundary or w	31.24	Chronostratigraphic-zone, chronozone, or stage boundary—Showing names of stratigraphic ages	Aptian Albian	H-8	placed along zone boundary or within zones.