

The following text is provided for the use by other users who may wish to convert existing lithologic records to/from C-Master format.

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The text below in black is a layout description of the lithology file used by C-Master for each drill hole. **Text in BOLD RED** suggests a standard data value to be used, **text in green** points to the header sheet (at the end of the document) so you can choose the appropriate value from the selections given or gives general guidance for possible values to be used.

 AA.3.7 Lithology file format - The following format applies to all lithology files in the system. There are many records in the file. The first 21 records define the header items. All records following define the individual lithology records. Each record will be given separately. This file should be modified only by CMASTER.

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT		
REC 1						
1	ISTATE	Current CMASTER state	1	6	I6	Set to Zero
2	ISEQ	Current CMASTER seq	7	6	I6	Set to Zero
3	ICMPLT	Completion of header (0=done,no errors)	13	6	I6	Set to Zero
4	QUAD	Quadrangle name	19	12	A12	1
5	STATE	State name	31	4	A4	2
6	MSCLE	Scale code	35	6	I6	3
7	ASCALE	Actual scale	41	12	F12.0	Actual scale (i.e. 62500.)
REC 2						
1	ISTYPE	Source of log type	1	6	I6	5 (specify as 1,2,3,4)
2	SID	Source of log ID #	7	6	I6	Set to Zero
3	SOURCE	Source of log	13	72	A72	Suggest your company name (Type 1)
REC 3						
1	TID	Tract ID #	1	6	I6	Set to Zero
2	TRACT	Tract name	7	20	A20	6
3	HOLENO	Drill hole number assigned by source	27	12	A12	7
REC 4						
1	CID	Contributor ID #	1	6	I6	Set to Zero
2	CONTRB	Contributor name	7	72	A72	8
3	FIELD	contributor's DDH #	79	12	A12	9 (Duplicate 7 if no difference)
REC 5						
1	ICTYPE	Coordinate type	1	6	I6	(1=10,2=11,3=12)
2	COORDS	Coordinates as input	7	64	1A24	This field depends on coordinate type
3	AUZONE	UTM zone number	71	6	I6	
4	UTMN	UTM northing	77	12	F12.0	
5	UTME	UTM easting	89	12	F12.0	
6	IDATUM	Which Datum is in use	101	3	I3 ¹	
7	I_INT	NAD83-INTERNATIONAL FEET	104	3	I3	0=not International Feet

¹ IDATUM is blank or 0 for NAD27, 1 for NAD83, or 2 for WGS84. A/O 12/1/2015, IDATUM is not used.

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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If you need this, I'll supply a key

REC 6

1	CARTER	Carter coordinates	1	20	A20	FNL and FEL Only
2	TWNRNG	Township/range	21	28	A28	
3	CMPGRD	Company grid	49	24	A24	

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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REC 7

1	CSTATE	State location of hole	1	4	A4	17
2	COUNTY	County location	5	12	A12	18
3	TWNSHP	Township or nearest Place	17	12	A12	19
4	ATTRIBUTES	Log Attributes	29	32	32L1	User defined attributes (T or F)

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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REC 8

1	AGDESC	Ground location descrip.	1	36	A36	20
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ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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REC 9

1	IELEV	Elevation type	1	6	I6	21 (1=feet,2=meters)
2	ELEVAT	Elevation in feet	7	12	F12.1	This is in feet, regardless.
3	DANGLE	Angle of drill hole from vertical(0 deg)	19	6	F6.0	Vertical is 0.0
4	FTCUM	Total depth of entered Lithologies	25	13	F13.3	Leave blank or make it 0.0
5	NUM_LITH	Number of lithos in last	38	12	I12	Not required

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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REC 10

1	EMETH	Elevation determination method	1	32	A32	22
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ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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REC 11

1	LOGGER	Name of logger	1	16	A16	23
2	DYEAR	Year logged	17	6	I6	24

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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REC 12

1	IDDEPTH	Depth type	1	6	I6	25 (1=feet, 2=meters)
2	DEPTH	Depth of hole in feet	7	12	F12.1	This is in feet regardless.

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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REC 13

1	BEDREG	Bed code region ID	1	4	A4	26
2	BEDUP	Upper bed code	5	4	A4	27
3	IBEDUP	Upper bed code #	9	5	I5	Leave blank
4	BEDLOW	Lower bed code	14	4	A4	28
5	IBEDLO	Lower bed code #	18	5	I5	Leave blank

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT
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REC 14

1	METHOD	Method of logging	1	4	A4	29.1
2	AMETH	Description of method	5	20	A20	

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT		
REC 15						
1	RECORD	Method of recording	1	6	I6	29.2
2	ARCRD	Description	7	20	A20	
The following SCOUT fields are still under development and may change						
3	SCOUT_F	This file contains SCOUT FILE data fields	27	1	L1	"T" if a scout file
4	SCOUT_C	Default code for Intervening layers	28	8	A8	
5	SCOUT_E	Default English layer	36	48	A48	

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT		
REC 16						
1	UNITS	Units of measure	1	6	I6	30.1
2	AUNIT	Description	7	20	A20	

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT		
REC 17						
1	MMEAS	Method of measure	1	6	I6	30.2
2	AMEAS	Description	7	20	A20	

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT		
REC 18						
1	PERSON	Person submitting log	1	16	A16	31
2	SDATE	Date of submission	17	12	A12	32
3	HDRDATA1	User supplied data 2	29	128	A128	

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT		
REC 19						
1	ENPERS	Person last editing log	1	16	A16	If known.
2	ENDATE	Date of last edit	17	12	A12	If known.
3	HDRDATA2	User Supplied Data 2	29	128	A128	

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT		
REC 20						
1	FLAG	First 25 header flags	1	75	25I3	Set to Zero
REC 21						
1	FLAG	Last 25 header flags	1	75	25I3	Set to Zero

Records 22 through the end of file are in two record pairs.

The layout is given as the even and odd records of the pair.

If your data is in company proprietary numeric code, please place the actual lithology description into the ENGLISH field, and specify that the method of recording is =2 (English). LOGPLOT will not translate codes properly, but you can map the codes to the Ferm coding scheme easily by including the English for the lithology.

ITEM NAME	DESCRIPTION	START	LENGTH	FORMAT		
REC even						
1	CODE	Lithology code	1	8	A8	
2	FTINC	Individual thickness	9	11	F11.3	Thickness of this individual unit
3	ENGLSH	English phrase	20	48	1A8	
4	COMMNT	Driller comment	68	16	A16	
5	CRECR	Method of recording	84	1	I1	Same value as 29.2
6	CMEAS	Method of measure	85	1	I1	Same value as 30.1
7	CUNIT	Units of measure	86	1	I1	Same value as 30.2
8	CBARL	Core barrel number	87	4	I4	Set if 30.2=3
9	CODED	Entry coded flag (1=coded)	91	2	I2	Set to zero
10	ORIGNL	Original thickness as user input	93	16	A16	This and following field will be the same if 30.2=1
11	FT	Original thickness in ft computed from (10)	109	11	F11.3	
12	VARIANT1	User data 1	120	128	A128	
The following SCOUT field is still under development and may change						
13	SCOUT_D	Raw Scout Card Data	248	128	A128	
REC odd						
1	SEAM	Seam tag for lithology	1	40	A40	Leave blank if no data
2	ANALYT	Analysis tag for litho	41	40	A40	
3	VARIANT2	User Data 2	81	128	A128	

29.1 KIND OF RECORD (C=core, T=cutting, O=other, E=E-LOG, U=unknown).....|__|
 29.2 METHOD OF LITHO DESCRIPTION (1=numeric litho code, 2=English, 3=combination, 4=other).....|__|
 30.1 UNITS OF MEASUREMENT (1=ft/in/frac, 2=decimal feet, 3=meters, 4=combination, 0=other).....|__|
 30.2 METHOD(S) OF MEASUREMENT (1=individual thick., 2=cumulative thick., 3=core barrel cum., 4=combination, 0=other).....|__|
 Write in other entry format _____
 31. PERSON SUBMITTING LOG FOR ENTRY.....|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__| 31
 32. DATE SUBMITTED (MM/DD/YY).....|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__| 32