

Well Log Formats

Builder supports the following well log formats:

- [LAS Well Log Format](#)
- [Single Well Log File](#)
- [Multiple Well Log File](#)

LAS Well Log Format

Builder supports Canadian Well Logging Society's LAS (Log ASCII Standard) Well Log format version 3.0. This format can have the "wrap" or "no wrap" option, and both options are supported. Contact the following address for detailed format description:

CWLS Committee
Suite 229, 640-5 Avenue S.W.
Calgary, Alberta
CANADA T2P 0M6

Builder only read the following information sections from the file:

```
~VERSION INFORMATION
~Well Information
~Curve Information
~ASCII | CURVE
~Inclinometry_Definition
~Inclinometry | Inclinometry_Definition
~Perforations_Definition
~Perforations | Perforations_Definition
~Tops_Definition
~Tops | Tops_Definition
```

The well surface location is given by UTM in the Well Information section. Builder does NOT read the location given in longitude and latitude format. The well log data are given by Curve Information and ASCII | CURVE sections. The Inclinometry_Definition and Inclinometry sections describe the 3D well trajectory. The Perforations_Definition and Perforations sections specify the perforation interval along the trajectory. The information in these two sections, if present, will be read by the Builder.

The default file extension for this format is ".las". This type of file is self-explanatory. So the sample file below should explain most of the format:

```
~VERSION INFORMATION
VERS.                3.0 : CWLS LOG ASCII STANDARD -VERSION 3.0
WRAP.                NO : ONE LINE PER DEPTH STEP
DLM .                COMMA : DELIMITING CHARACTER BETWEEN DATA COLUMNS
# Acceptable delimiting characters: SPACE (default), TAB, OR COMMA.

~Well Information

#MNE.M.UNIT          DATA          DESCRIPTION
#-----
STRT .M             1670.0000       : First Index Value
STOP .M             713.2500       : Last Index Value
STEP .M            -0.1250         : STEP
NULL .              -999.25        : NULL VALUE
COMP .              ANY OIL COMPANY INC. : COMPANY
```

[Importing Geological and Well Trajectory Data](#) > Well Log Formats

LOC .	12-34-12-34W5M	: LOCATION
PROV .	ALBERTA	: PROVINCE
SRVC .	ANY LOGGING COMPANY INC.	: SERVICE COMPANY
DATE .	13/12/1986	: LOG DATE {DD/MM/YYYY}
UWI .	100123401234W500	: UNIQUE WELL ID
API .	12345678	: API NUMBER
LAT .DEG	34.56789	: Latitude {DEG}
LONG .DEG	-102.34567	: Longitude {DEG}
UTM .1234587	3489875	: UTM LOCATION

~CURVE INFORMATION

#MNEM.UNIT	API CODES	CURVE DESCRIPTION
#-----	-----	-----
DEPT .M		: 1 DEPTH
DT .US/M	60 520 32 00	: 2 SONIC TRANSIT TIME
RHOB .K/M3	45 350 01 00	: 3 BULK DENSITY
NPHI .V/V	42 890 00 00	: 4 NEUTRON POROSITY
SFLU .OHMM	07 220 04 00	: 5 RXORESISTIVITY
SFLA .OHMM	07 222 01 00	: 6 SHALLOW RESISTIVITY
ILM .OHMM	07 120 44 00	: 7 MEDIUM RESISTIVITY
ILD .OHMM	07 120 46 00	: 8 DEEP RESISTIVITY

~PARAMETER INFORMATION

#MNEM.UNIT	VALUE	DESCRIPTION
#-----	-----	-----
MUD .	GEL CHEM	: MUD TYPE
BHT .DEGC	35.5000	: BOTTOMHOLE TEMPERATURE
BS .MM	200.0000	: BIT SIZE
FD .K/M3	1000.0000	: FLUID DENSITY
MATR .	SAND	: NEUTRON MATRIX
MDEN .	2710.0000	: LOGGING MATRIX DENSITY
RMF .OHMM	0.2160	: MUD FILTRATE RESISTIVITY
DFD .K/M3	1525.0000	: DRILL FLUID DENSITY

~OTHER

Note: The logging tools became stuck at 625 metres causing the data between 625 metres and 615 metres to be invalid.

~ASCII | CURVE

1670.000	123.450	2550.000	0.450	123.450	123.450	110.200	105.600
1669.875	123.450	2550.000	0.450	123.450	123.450	110.200	105.600
1669.750	123.450	2550.000	0.450	123.450	123.450	110.200	105.600

~Inclinometry_Definition

MD. M	: Measured Depth	{F}
TVD. M	: True Vertical Depth	{F}
AZIM.DEG	: Borehole Azimuth	{F}
DEVI.DEG	: Borehole Deviation	{F}

~Inclinometry | Inclinometry_Definition

0.00,0.00,290.00,0.00
100.00,100.00,234.00,0.00
200.00,198.34,284.86,1.43
300.00,295.44,234.21,2.04
400.00,390.71,224.04,3.93
500.00,482.85,224.64,5.88
600.00,571.90,204.39,7.41

~Perforations_Definition

PERFT.M	: Perforation Top Depth	{F}
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PERFT.

: Charge Type

{S}

~Perforations | Perforations_Definition

545.50,550.60,12,BIG HOLE

551.20,554.90,12,BIG HOLE

575.00,595.00,12,BIG HOLE