

# GWSA Lancer 1 Composite well log

Company	Geological Survey of WA	
Well Name	Lancer 1	
Well Type	Stratigraphic, vertical corehole	
Status	Plugged and abandoned	
Sub-Basins	Gurbarri or Officer Basin	
Latitude	28°54'44.45" S	
Longitude	123°49'21" E	
Easting	7220780 (MGA Zone 5U)	
Elevation QL	450 m AHD	
Height datum	1501.3 m (datum)	
Bottom hole temperature	63.9°C	
Date spudded	10 October 2003	
Date completed	20 November 2003	
Rig	UDR 1500	
Drilling company	DriCorp Western Diaphole	
Logging company	Geoscience Associates	
Logging geologists	Peter Haines (core), Mark Stevens (tings)	

<b>CORES</b>	104-429.5 m	
FC	429.5-1501 m	
<b>LOGS</b>	16' normal resistivity	420-1501 m
Run 1	64' normal resistivity	420-1501 m
Run 2	SP	420-1501 m
Run 3	N GR	0-1501 m
Run 4	LD	0-1501 m
Run 5	SD	0-1501 m
Run 6	Sonic	1450-1500 m
	HTV (acoustic scanner)	1200-1365 m
<b>CASING</b>	0-6 m	
PC	0-104 m	
PW	104-429 m	
WTW		

\* Preliminary location, pending final site survey (GDA94).  
 † 16' normal resistivity, 64' normal resistivity, and single point resistance logs are considered unreliable due to the highly saline mud in the hole.

### LITHOLOGIES

	Conglomerate		Claystone		Anhydrite/gypsum
	Sandstone		Diamictite		Halite
	Mudstone		Dolomite		Basalt

### LITHOLOGY MODIFIERS

- ▬ Argillaceous/silty
- ▬ Dolomitic or dolostone interbeds
- Cherty or chert beds/nodules
- ▬ Anhydritic/gypsiferous
- ▬ Halite-bearing
- ▬ Syneresis cracks
- ▬ Vein/fracture
- ▬ Styolites
- ▬ Stromatolites
- ▬ Intracasts (colour indicates lithology)
- ▬ Oolitic
- ▬ Flutes
- ▬ Soft-sediment deformation, slump
- ▬ Soft-sediment fault
- ▬ Sandstone dyke along soft-sediment faults
- ▬ Desiccation cracks
- ▬ Microbial lamination
- ▬ Vesicles/amygdales
- ▬ Pyrite
- ▬ Vugs
- ▬ G Glaucinite

### SYMBOLS

- ▬ Pebby
- ▬ Pebby (angular clasts)
- ▬ Sandy
- ▬ Flat bedding or lamination
- ▬ Current ripple lamination
- ▬ Cross-bedding
- ▬ Large foresets
- ▬ Irregular or wavy bedding
- ▬ Unconformity
- ▬ Flutes
- ▬ Soft-sediment deformation, slump
- ▬ Sandstone dyke along soft-sediment faults
- ▬ Desiccation cracks
- ▬ Microbial lamination
- ▬ Vesicles/amygdales
- ▬ Pyrite
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