

COMPOSITE WELL LOG - VOLUTA No 1 SHELL DEVELOPMENT (AUSTRALIA) PTY. LTD.

Voluta-1

SHEET 1 OF 4

PETROLEUM TENEMENT: PEP 22 - HELD BY FROME-BROKEN HILL

STATE: VICTORIA

PORTLAND 4 MILE SHEET

OTWAY BASIN

WELL STATUS: DRY AND ABANDONED

LOCATION E 429,910y ATM ZONE 6
N 262,416y
ELEVATION OF 1/2" ABOVE MSL
SEA-BED 30' BELOW MSL
DATE SPUDED 25th AUGUST 1967
DATE TO REACHED 8th DECEMBER 1967
DATE RIG RELEASED 21st DECEMBER 1967
TOTAL DEPTH DRILLER 13,037'
ALL DEPTHS BELOW DERRICK FLOOR

HOLE SIZE	INCHES	FROM	TO
36"	30'	SEA-BED	525'
26"	525'	976'	
17 1/2"	976'	2650'	
12 1/4"	2650'	6335'	
8 1/2"	6335'	13037'	

CASING	SIZE	WEIGHT	GRADE	DEPTH	CEMENT	CEM TO
30"	30 1/8"	30 lbs/ft	J 55	516'	1,200 bgs	SEA - BED
20"	20 1/8"	24 lbs/ft	J 55	966'	2,000 bgs	SEA - BED
13 3/8"	13 3/8"	22 lbs/ft	N 80	2625'	1,824'	
9"	9"	47 lbs/ft	P 110	6314'	1,700 bgs	2620'

CEMENT PLUGS	FROM	TO	CEMENT
	7500'	6700'	335 bgs
	6700'	5800'	380 bgs
	710'	413'	100 bgs

BRIDGE PLUGS: BAKER MODEL N AT 5310'
BAKER MODEL K AT 710'
(converted to BP)

PERFORATIONS: NOT APPLICABLE

DRILLED BY: SEDCO 135E
DRILLING METHOD: ROTARY
MUDLOGGING BY: GEOSERVICES
LOGGED BY: SCHLUMBERGER
CEMENTED BY: HALLIBURTON
WELL HEAD FITTING: VETCO TYPE PERMANENT GUIDE BASE

INDUCTION LOG DATA			
RUN NUMBER	1	2	3
DATE	15-10-1967	9-11-1967	8-12-1967
FOOTAGE LOGGED	3,672'	3,321'	3,916'
LOGGED FROM	6,296'	9,636'	12,416'
LOGGED TO	2,624'	6,315'	9,500'
TOTAL DEPTH-ELECTRIC LOG	6,297'	9,637'	12,417'
TOTAL DEPTH-DRILLER	6,302'	9,795'	13,037'
CASING SHOE-ELECTRIC LOG	2,624'	6,315'	6,315'
CASING SHOE-DRILLER	2,625'	6,314'	6,314'
BIT SIZE	2 1/4" x 627/8" @ 6306'	8 1/2"	
MUD TYPE	SPERSENE/XP 20	SPERSENE/XP 20	SPERSENE/XP 20
WATER LOSS Ccs/30 mins	5.0	4.6	4.2
WEIGHT lbs/cuft	72	73	78
VISCOSITY (MARSH)	43	41	53
Ph	9.5	9.6	9.6
Rm, Ω m/m	13 at 82°F	1.02 at 91°F	0.75 at 88°F
Rm at B.H.T.	0.82 at 128°F	0.5 at 187°F	0.29 at 220°F
Rmi	1.4 at 68°F	1.0 at 73°F	0.7 at 64°F
Rmc	2.38 at 68°F	1.4 at 73°F	1.65 at 66°F
MAX RECORDED TEMP*F	128°F	187°F	220°F
RECORDED BY	GREAU	GREAU	GREAU
WITNESS	LE CALVEZ/DENYS	LILLIE	LILLIE

OTHER LOGS			
TYPE OF LOG	FROM	TO	RUN NO
BHC SONIC/CALIPER/GAMMA RAY LOG	12,360'	965'	1,2,3,4,5
FORMATION DENSITY COMPENSATED	9,636'	2,624'	1,2
MICROLOG - CALIPER	2,648'	965'	1,2
LATEROLOG	2,645'	965'	1
SIDEWALL NEUTRON POROSITY	6,296'	2,624'	1
TEMPERATURE	2,648'	256'	1,2,3
CEMENT BOND LOG	6,340'	940'	1,2,2,4
CASING COLLAR LOCATOR	6,301'	6,195'	1,2
CONTINUOUS DIPMETER	8,706'	2,624'	1,2

LITHOLOGY

- SANDSTONE
- SAND
- SILTSTONE
- SILT
- SHALE
- CLAYSTONE-MUDSTONE
- CLAY
- MARL
- LIMESTONE
- DOLOMITIC LIMESTONE
- CALCITIC DOLOMITE
- DOLOMITE
- CRYSTALLINE DOLOMITE
- CHERTY, CHERT
- COAL
- SANDSTONE-SILT
- SHALE-CLAYSTONE
- LIMESTONE
- DOLOMITE
- CONGLOMERATE
- SANDY
- SILTY
- ARGILLACEOUS
- MARLY

CLASTICS COMPOSITION

CLASTICS, FINE GRAINED

CLASTICS, MEDIUM TO COARSE GRAINED

QUARTZ

LITHIC

SUBLITHIC

FELDSPATHIC

SUBFELDSPATHIC

GLAUCONITE/GLAUCONITIC

IRON/FERRUGINOUS

PYRITE/PYRITIC

SIDERITE/SIDERITIC

LIMONITE/LIMONITIC

NOODULES OR CONCRETIONS (CALCAREOUS-DOLOMITIC)

INTERBEDS (70% SHALE/30% SAND)

ROCK TYPE UNKNOWN

GRADATIONAL

ROCK-STRATIGRAPHIC BOUNDARY

TECTONICALLY DISTURBED

WELL SYMBOLS

CORE NUMBER, INTERVAL, RECOVERY

SIDEWALL CORES RECOVERED

20" CASING CEMENTED AT 966' WITH 2000 SACKS OF CEMENT

DRILLING FLUID

CWB = CLAY WATER BASE MUD

GUN PERFORATED INTERVAL, CEMENTED OFF

HOLE PLUGGED BACK TO 5800' WITH 715 SACKS OF CEMENT

HOLE BRIDGED AT 710' BY BRIDGE PLUG

WLLP = WIPE LINE BRIDGE PLUG

MINOR GAS SHOW

DRILLING FLUID LOSS INTERVAL

FOSSILS

FORAMINIFERA

BRYOZOA

CORALS

ECHINODS

LAMELLIBRANCHS

GASTROPODS

PLANT REMAINS

BIOCLASTIC DEBRIS

