

ARCHIE EQUATION PARAMETERS CATALOGUE

Well	Basin	Formation	Age	Palyno. Zone	Depth (metres)	Lithology	Cementation Exponent (m)	Saturation Exponent (n)	Tortuosity Factor (a)	Salinity	Comments	Reference
Angel Field	Dampier	Angel	Tithonian	P. iehiense – K. wisemaniae	2700-3000	SST, massive, qtz, glauc, ilb silty claystone.	1.81	1.95	1	30,000ppm (water analysis)	M&n values are "star" values	W.C.R
Cossack Field	Dampier	Angel	Tithonian	P. iehiense – K. wisemaniae	2800-2900	SST; massive, qtz, glauc, i/b silty claystone	1.73	2.2 – 4.0	1	28,000ppm (water analysis)	(n dependant on Sw)	W.C.R
Dongara-12	Perth	Dongara Sandstone	Early Triassic	?	1624.6-1641.6mRT	SST: m-crse, mod srted, subbrnd-subang.	1.75 (0 psig)	2 (assumed)	1 (assumed)	1400ppm (water analysis)	(n dependant on Sw)	W.O.P
Goodwyn Field	Dampier	Mungaroo	Norian (Triassic)	A. reducta – M. crenatus	1935-57	SST, LV case, mod-w, srted, qtz pysitic VP	1.82	1.96	1	23,000ppm (water analysis)	m&n values are "star" values	W.C.R
Harriet Field	Barrow	Flag Sandstone	Early Cretaceous (Valanginian)	S. areolata	1935-57	SST; m-crse, friable-firm, subang-subbrnd well srted.	1.81 (@ 3200 psi)	1.81 (@ 3200 psi)	1 (assumed)	36,000ppm (water analysis)		Hadson Energy
Harriet-1	Barrow	Flag Sandstone	Early Cretaceous (Valangiraan)	S. areolata	1935-57	SST, m-crse, eristile form, snbang-subbrnd well artd	1.82 (@ 3200 psi)	1.76 (@ 3200 psi)	1 (assumed)	36,000ppm water analysis)		W.C.R
Harriet-5	Barrow	Flag Sandstone	Early Cretaceous (Valangiraan)	S. areolata	2255-63	SST, m-crse, friable form, subang-subbrnd well artd	1.68 (@ 0 psi) 1.70 (@ 200 psi) 1.71 (@ 600 psi) 1.71 (@ 3700 psi)	1.84 (average)	1 (assumed)	-34,000ppm		Corelab 1985
Jabiru Field	Vulcan	Plover	Early Jurassic	C. torosa	1616.9-1667.8	SST; vf-crse, mod-w srted, puritic, mod-well indurated	1.6	1.6	1 (assumed)	34,000ppm (water analysis)	m & n derived from averaging 2 or more samples, m values are not "m star" values	B.H.P

ARCHIE EQUATION PARAMETERS CATALOGUE

Jabiru-1A	Vulcan	Plover Foi	Early Jurassic	C. torosa	3616.9-1667.8	SST, f,v crse, mod-w- srted, pyretic, mod-well ndurated	1.64 (@ 0 psig) 1.70 (@ 200 psig) 1.71 (@ 1600 psig) 1.71 (@ 3700 psig)	1.52 (average) (Rango 1.42-1.83)	1 (assumed)	34,000ppm (water analysis)	m&n derived from averaging 2 or more samples, m values are not "m star" values	W.C.R Corelab (1983)
North Rankin Field	Dampier	Mungaroo	Norian (Triassic)	A. reducta - M. cremulatus	3150-4050	SST; f.v. crse, mod-w- srted, qtz, pyritic	1.84	1.97	1	21,000ppm (water analysis)	m values are "m star" values	W.C.R
Ramallies-1	Barrow	Mardie Greensind		P. burgeri	2690	Glaucomitic Sandstone	2	1.55	1	33,600ppm (water analysis)		W.C.R
Rough Range-2	Exmouth	Birdrong Sst			1125	SST; f-cse grn, poorly sorted	1.77	1.70	1	34,880ppm (water analysis)	Porosity up to 33% at NOBP. K generally exceeds 8 darcies	Ampolex
Saladin-1	Barrow	Flacourt	Cretaceous	S. tabulata – B. eneabbaensis	1070-1102	SST; med-v crse. Mod-w srted occ py & calc cmt. Fm-Fri	1.91	1.8	0.91	35,000ppm (water analysis)	Porosity up to 33% at NOBP. K generally exceeds 8 darcies	W.C.R
South Pepper-1	Barrow	Barrow Gp	Neocoonian (Valanginian)	S. areolata	1217-1227	EST; vi-cose, p-mod srted, arg-subrnd	1.74 (@ 0 psi) 1.79 (@ 200 psi) 1.80 (@ 950 psi) 1.81 (@ 1900 psi)	1.81 (average)	1 (assumed)	~28,000ppm 0.23Ω m @ 25° C (water analysis)	m&n derived from averaging 6 samples. Values are not "on star" values	Corelab 1984
Sundown-1	Canning	Grant	Early Permian	?	?	SST	1.61+1.67 (@ 0 psi) 1.68 (@ 200 psi) 1.7 (@ 1800 psi)	1.79 (average) (Range 1.65-1.96)	1 (assumed)	~28,000ppm 0.23Ω m @ 25° C (water analysis)		
Talisman-1	Dampier	Talisman Sandstone	Early Cretaceous	S. tabulata – S. areolata	1983.5-2005.5	SST; m-crse, subrnd-rnd mod well sorted, glauconitia (S445%) friable, sideritio, argillaceous	1.48 (@ 0 psi) 1.66 (@ 200 psi) 1.79 (@ 3400 psi)	1.78 (average) Range 1.60-2.04)	1 (assumed)	28,000ppm (water analysis)	Porosity up to 33% at NOBP. K generally exceeds 8 darcies	W.C.R

ARCHIE EQUATION PARAMETERS CATALOGUE

Talisman-2	Dampier	Angel	Early Cretaceous Late Jurassic	D. lobispinosum	2047-2245	SST; f-c grnd, subrnd-rnd mod-well sorted friable, sideritic, argillaceous	1.51 (@ 0 psi) 1.66 (@ 200 psi) 1.79 (@3400 psi)	1.75 (average) Range 1.70 - 1.82)	1 (assumed)	~28,000ppm 0.23Ω m @ 25° C (produced water)	M&n derived from averaging 2 or more samples, m values are not "m star" values	W.C.R
Wanaea Field	Dampier	Angel	Tithonian	P. iehiense – K. wisemaniae	2800-2900	SST; massive, qtz, glauc, i/b silty claystone	1.75	2.2	1	28,000 ppm (water analysis)	m values are "m star" values	W.C.R
Wandoo-1	Dampier	M. australis Sst	Barremian	M. australis	600	SST; vf-f, well srted, well rnded up to 30% glauc	2.25 (@ 1000 psig)	2.36	0.62	~33,000 ppm (from Hampton-1)	m&n carried out on unconsolidated sample	Ampolex