

TABLE 6: Petrophysical Parameters

	WATER							WATER/OIL	UNSPEC GAS/ HYD	OIL
	2175 - 2194.5  (m)	2194.5 - 2364  (m)	2364 - 2371.5  (m)	2371.5 - 2497.5  (m)	2497.5 - 2566.9  (m)	2566.9 - 2650  (m)	2650 - 2859  (m)	2859-3018 3020-3108 3111-3128 3132-3194 3198-3987 (m)	3018-3020 3108-3111 3194-3198  (m)	3128-3132   (m)
GR minimum (API units)	30	30	30	30	30	30	30	22	22	22
GR maximum (API units)	135	135	135	135	135	135	135	135	135	135
mf (g/cc)	1	1	1	1	1	1	1	1	1	1
ma (g/cc)	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66
R <sub>mud</sub> (ohm.m)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.086	0.086	0.086
R <sub>mc</sub> (ohm.m)	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.075	0.075	0.075
R <sub>sh</sub> (ohm.m)	6	6	6	6	6	15	25	45	45	45
R <sub>w</sub> (ohm.m)	0.120	0.108	0.126	0.112	0.128	0.112	0.12	0.162	0.162	0.138
m	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
A	0.58	0.58	0.58	0.58	0.58	5.8	5.8	5.8	5.8	5.8
n	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
h (g/cc)	1	1	1	1	1	1	1	1	0.07	1
Ø <sub>N<sub>ma</sub></sub> (porosity units)									3	
Ø <sub>N<sub>shale</sub></sub> (porosity units)									23	

Symbols Used:

- GR = Gamma Ray reading
- mf = Mud filtrate density
- ma = Matrix density
- R<sub>mud</sub> = Mud resistivity
- R<sub>mc</sub> = Mud cake resistivity
- R<sub>sh</sub> = Shale resistivity
- m = Cementation factor
- A = Constant
- n = Saturation exponent
- Ø<sub>N<sub>ma</sub></sub> = Neutron porosity for matrix
- Ø<sub>N<sub>shale</sub></sub> = Neutron porosity for shale

