

TABLE 4: EXINITE MACERAL ABUNDANCE AND FLUORESCENCE CHARACTERISTICS

Depth (m)	Exinite Macerals	Lithology/Comments
1520-1530	spo (Ra;mY-dO),lipto (Vr;mO),?phyto (Tr;mY)	chiefly sandy siltstone, ≈5% shale, ≈5% carbonate; some sporinite appears to be oxidised.
1590-1600	phyto (Ra=Vr;iY),lipto (Vr;iY)	carbonate:
1708-1717	bmite (Vr-Tr;dO),phyto (Vr;mY),spo (Tr;mO)	siltstone.
1807-1816	res (Ra;iG-mO),cut (Ra;mO),spo (Ra;mO),sub (Vr;dO)	50-60% sandstone, 40-50% siltstone.
1906-1915	bmen (Ra;dO-dB),spo (Vr;mY-mO),cut (Vr;mO)	chiefly siltstone and shale, ≈30% sandstone, ≈20% carbonate. Bitumen is interstitial to quartz in the sandstone.
1996-2005	spo (Ra;mY-mO),lipto (Ra;mO-dO),cut (Vr;mO),res (Vr;iY),bmite (Vr;dO)	shale and siltstone.
2086-2095	bmen (Tr;dB)	chiefly sandstone, 10-15% siltstone. DOM is over-mature.
2203-2212	spo (Ra;mY-mO),cut (Ra;mY-mO),lama (Vr;mO),res (Tr;mY),tela (Tr;mY-mO)	chiefly sandstone, 10-20% siltstone and shale, ≈5% intrusives (?cavings).
2302-2311	phyto (Ra;iY),lipto (Ra;mY-mO),spo (Vr;mY-mO),cut (Vr;mO),thuc (Tr;dO)	chiefly shale with silty bands ≈5% carbonate, <5% sandstone. Thucholite is evidence of oil migration.
2401-2410	lipto (Ra;mY-mO),lama (Ra;mO),spo (Vr;mO),res (Vr;iY-mO),cut (Vr;dO),phyto (Vr;mY),bmen (Vr;dO),thuc (Tr;dO),?oil (Tr;iY-iO)	chiefly siltstone and shale, <5% carbonate. ?Oil and bmen occur in sandier siltstones.
2465.5	spo (Ra-Vr;mO),lama (Ra-Vr;mY-mO),cut (Vr;mO),?tela (Vr;iO),res (Vr-Tr;iY-mO),?oil (Tr;iY)	silty shale, telaginite as appears to be biodegraded and may be <u>Botryococcus</u> -related.
2500-2509	lama (Ra;mO),lipto (Ra;mY-mO),phyto (Vr;iY),tela (Vr;iY),spo (Vr;dO),?oil (Tr;iY-iO)	shale; ?oil as above. Sporinite is oxidised.

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