

() ()

* ** ** *

()

°C Ro % / HI (mg H c/org C) TOC % /

(% /) Ro (/ °C) Tmax

Tmax

III II
(%)

III II I

:

(Bordenave & Huc, 1995;

.(; Mohseni & Al-Aasm, 2004

) ()
()

)
(
())
(1980; after Lee, 1950

()
()
(1980)
Bordenave & Huc Bordenave & Burwood (1990)
(1995)

()

(Suess et al.,1987; Pedersen & Calvert,

.1990; Harris, 2005)

... ()

()
()

(Huc, 1988; Pedersen & Calvert, 1990;

.Parrish, 1995; Hay, 1995)

)
(

Bordenave & Huc .

(1995)

(Demaison &

Moore, 1980; Pelet, 1987; Aller, 1994; Hunt, 1995)

Al-Sharhan & Nairn (1995)

(James & wynd,

(; 1965; Mohseni & Al-Aasm, 2004

(Alla et al.,1980; Murriss, 1980;

Bordenave& Burwood, 1990; Ziegler, 2001)

(Haq et

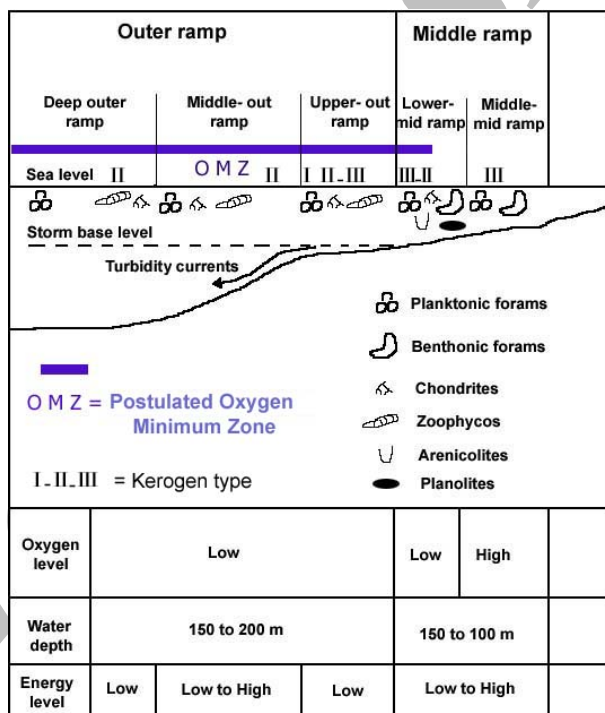
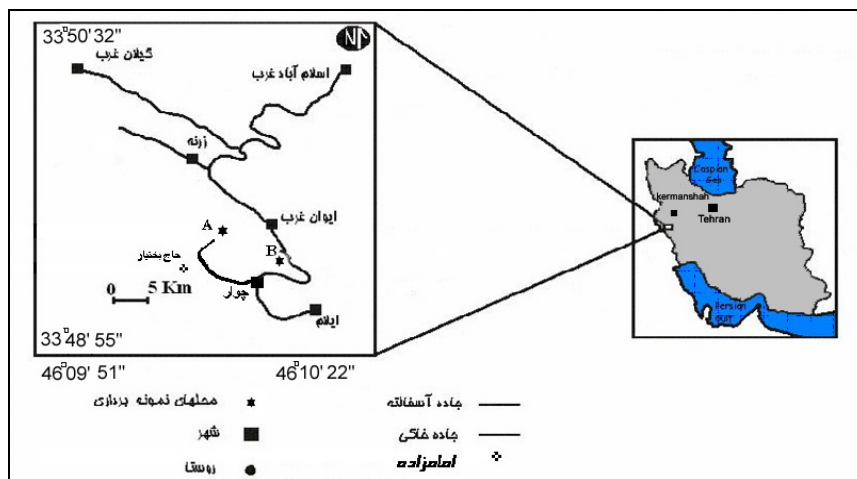
.al., 1988)

(Emery & Mayers,

.1996)

() ()

)



.XRD

Rock-Eval

... ()

.()

ASTM

()

) .()

Rock-Eval ()

((LOI)

)

(Hunt, 1995;

Rock-Eval (

.Curry et al., 1998)

III Rock-Eval

XRD

XRD

)()

)

(

(Stach,1975)

/ /

.(

/

.()

(API=)

(Thomas, 2002)

()

(Hunt, 1995; Curry et al., 1998;

(Murriss, 1980; Alavi, 1994)

Snowdon & Sykes, 2002)

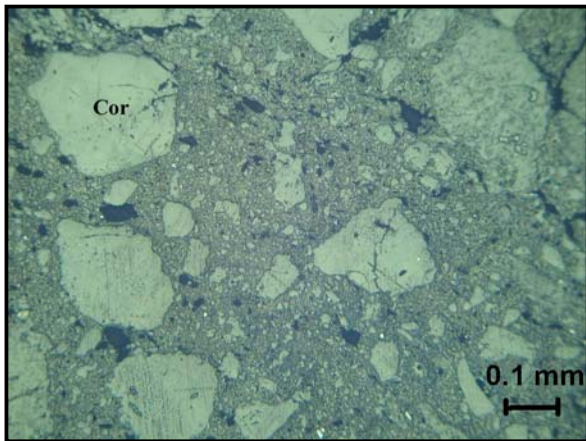
(%) (%) (%)

.()

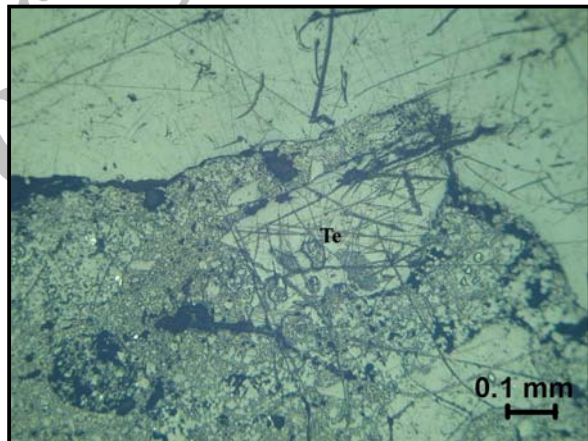
()



() () ()



(Cor) ()



(Te) ()

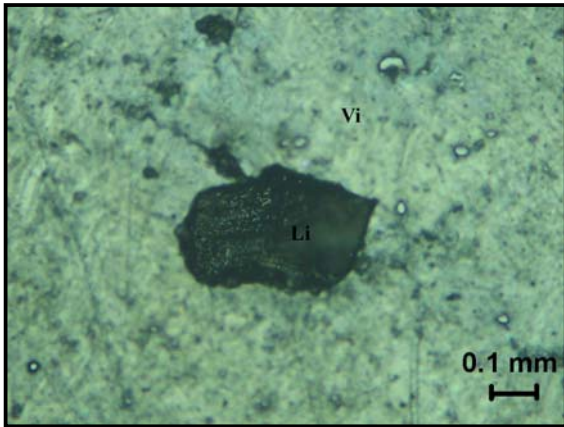
(Thomas, 2002)

(API=)

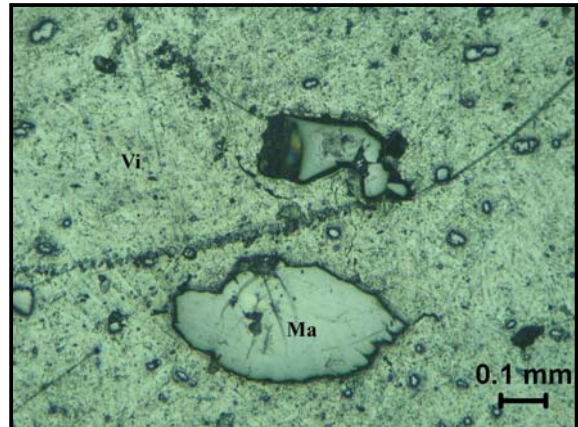
(Hunt, 1995)

(API=)

... ()

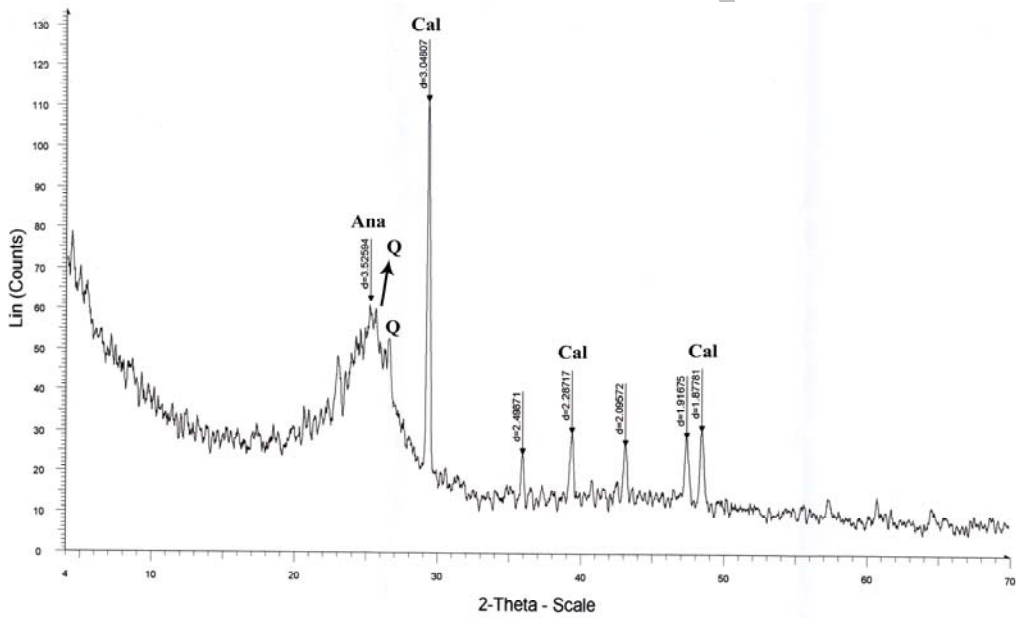


()



(Ma)

()



XRD ()

=Ana

=Cal

=Q

.(Curry et al., 1998)

Rock-

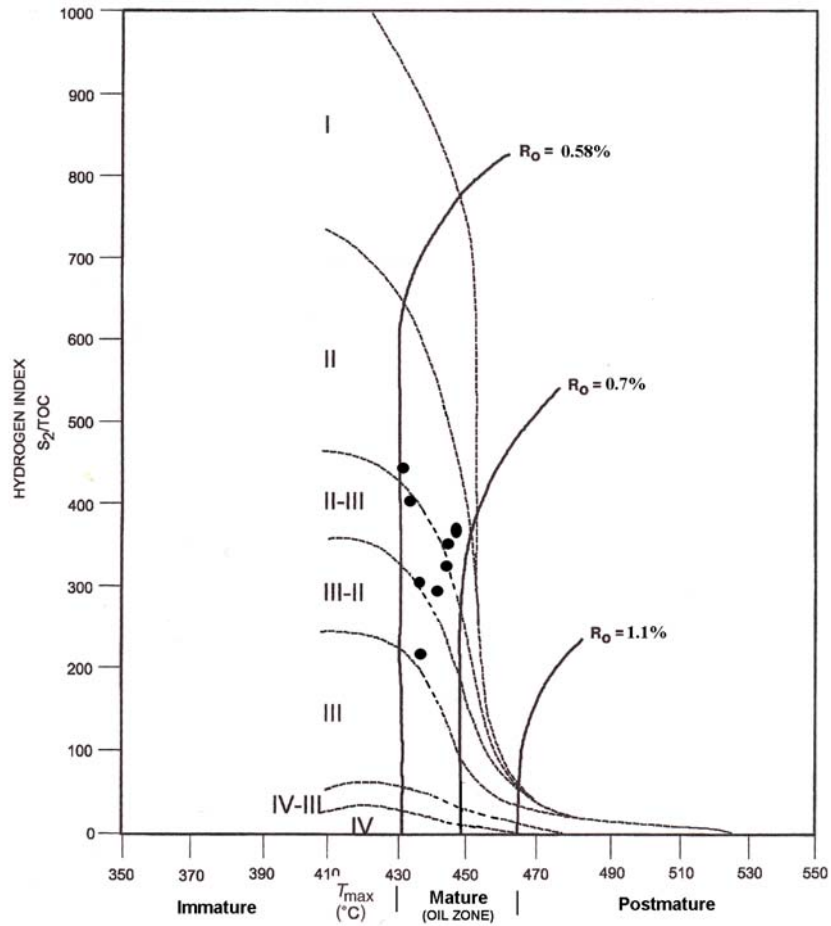
(Curry et

)

Eval

al., 1998)

(



() Tmax HI ()

%

(Stach, 1975; Snowdon & Sykes, 2002)

()

(Boreham et al., 1999)

()

... ()

% / % /

.()
(% / % /)

.()

Ro (°C) T_{max}
(mg HC/org C) HI (% / % /)
% /) RO .

.() mg Hc/org C) HI (°C)T_{max} (% /)

(Durand &Paratt, 1983; Marquis et al.,
1992; Hunt, 1995; Curry et al., 1998; Snowdon &
T_{max} Sykes, 2002)
()

TOC

HI

% . III II

% II

III II

(/ °C) T_{max}

(Snowdon &

mg Hc/org) (% /)
(/ C

.Sykes, 2002)

(George et

T_{max}

al., 1994; Diessel & Gammidge, 1998)

S₁ (PI= /

S₂

.(Snowdon & Sykes, 2002)

(% %) (% %)
(% / % /)

NMR,

O/C H/C

GC-Mass

.()

(Peters, 1986; Hunt, ()
 .1995; Harris, 2005) (James & Wynd, 1965; Mohseni & Al-
 () T_{max} .(;Aasm, 2004
 % ()

(LOI)

II II-III
 %
 % I /) () ()
 % II (%
 T_{max} II-III)

(mg Hc/org C) HI (/ °C) ()
 HI (% /) T_{max} ()

(PI= / /)
 S₂ S₁ % /

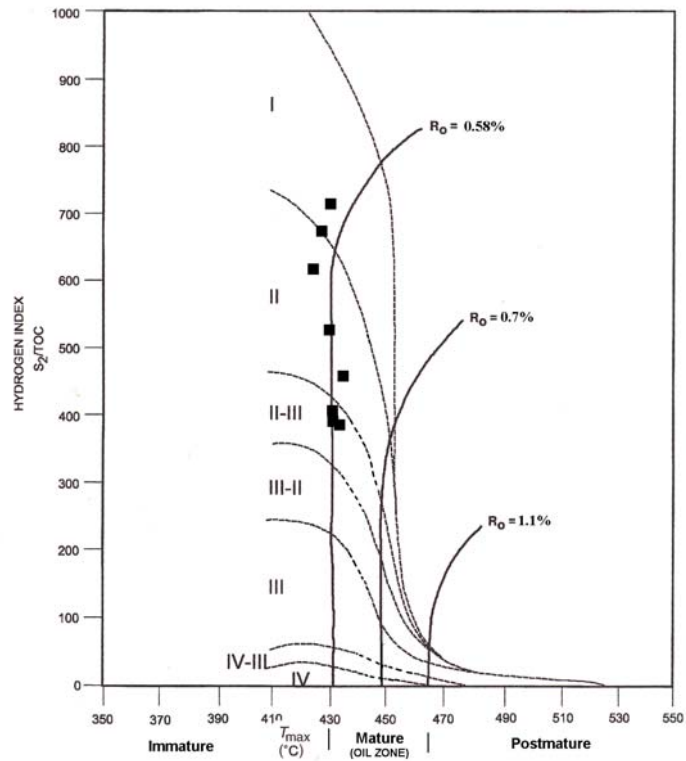
() TOC

II .() Rock-Eval

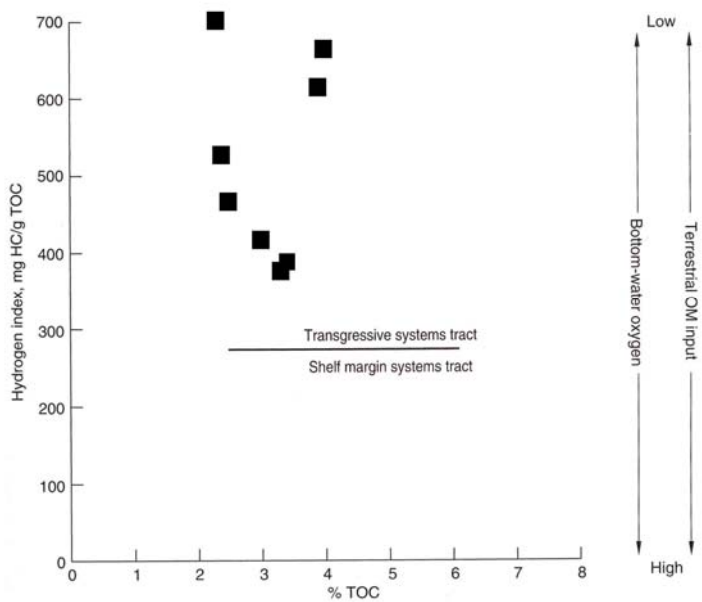
() ()

HI (% /) Ro (°C) T_{max}
 S₂ (> mg Hc/g Rock) S₁ (> mg Hc/org C)
 (> wt %) TOC (> mg Hc/g Rock)

... ()



() Tmax HI ()



() TOC HI ()

S₁

) () TOC

(

(Haq

.et al., 1988)

)

HI

() (mg Hc/org C)

()

()

(Emery & Mayers, 1996)

()

()

)

(Alavi, 1994)

(

(/ / wt%) TOC

S₂ (%)

(/ / mg Hc/g Rock)

) ()

mg Hc/g) S₁ (%)

(/ / Rockock

) (/ mg Hc/g Rock)

(mg Hc/g Rock) HI (mg Hc/g Rock

)

(mg Hc/org C) (

(

(°C) T_{max}

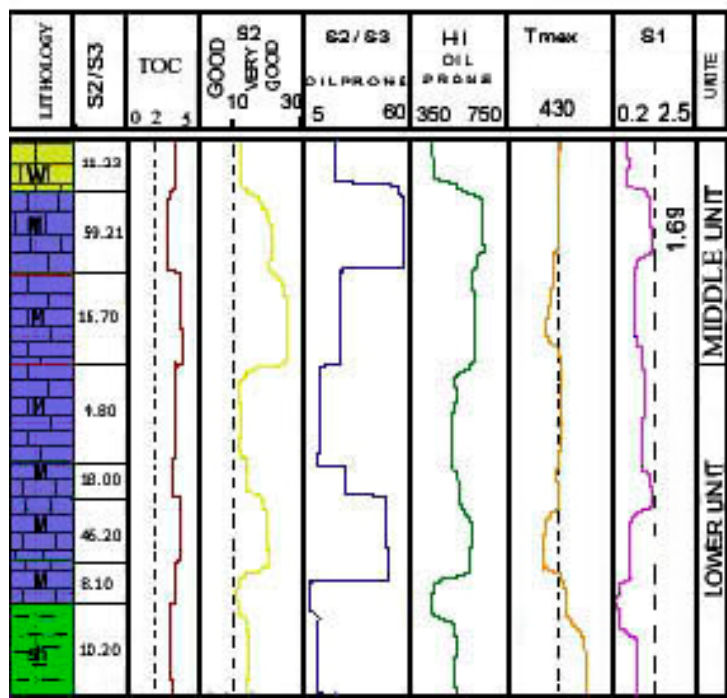
(/ /) S₂/S₃ (°C)

() ()

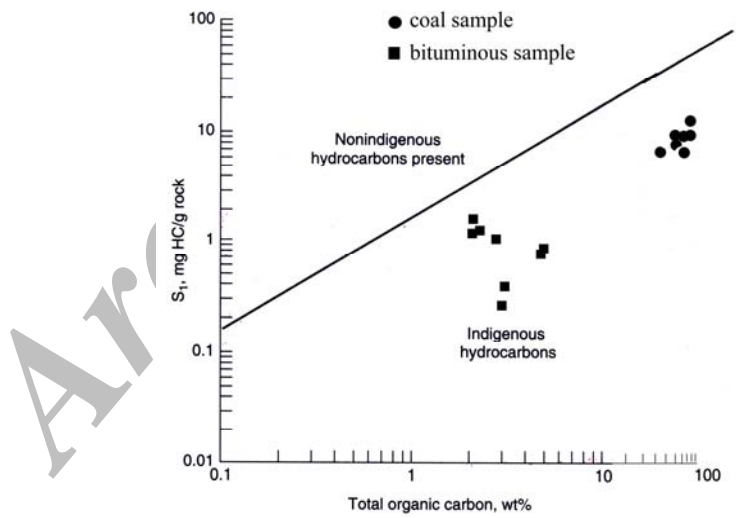
()

(S₁ S₂)

... ()



()



(,) TOC S1 ()

%
 % I
 II III
 %
 T_{max} mg Hc/org C HI TOC
 / / °C
 II
 III II
)
 ()
 ()
 ()
 ()

Ni, Cu, Co, Cd,

Pb, Mn, V, Fe

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