

**GEOCHEMICAL EVALUATION
OF
TWENTY-FIVE OUTCROPS
FINAL REPORT**

Prepared for

Wagner & Brown, Ltd.

by

The Geochemical Services Department

of

Core Laboratories

February 1994



CORE LABORATORIES

Core Laboratories Job Number: 94027

Date Completed: February 24, 1994

Work Requested By: David W. Johnson

Report Prepared By: Roger K. Trader

TABLE OF CONTENTS

TABLES

<i>Table 1.</i>	Total Organic Carbon and Rock-Eval Pyrolysis Data
-----------------	---

FIGURES

<i>Figure 1.</i>	Modified van Krevelen Diagram
<i>Figure 2.</i>	Rock-Eval S2 versus Total Organic Carbon
<i>Figure 3.</i>	Reactive Carbon Index (RCI) versus Rock-Eval Tmax

**Table 1. Total Organic Carbon and Rock-Eval Pyrolysis Data
Wagner & Brown, Ltd.**

Sample Number	Sample Type	TOC	S1	S2	S3	Tmax	Hydrogen Index	Oxygen Index	Reactive Carbon	Transformation Ratio
6527RS689	Outcrop	0.29								
6527RS690	Outcrop	0.34								
6527RS691	Outcrop	0.46	0.11	0.07	0.33	457	15	72	3.9	0.61
6527RS692	Outcrop	0.34								
6527RS693	Outcrop	0.23								
6527RS694	Outcrop	0.33								
6527RS695	Outcrop	0.31								
6527RS696	Outcrop	0.89								
6527RS697	Outcrop	1.53								
6527RS698	Outcrop	0.40								
6527RS699	Outcrop	0.29								
6527RS700	Outcrop	1.95								
6527RS701	Outcrop	0.45								
6527RS702	Outcrop	2.40								
6527RS703	Outcrop	1.56								
6527RS704	Outcrop	1.10	0.11	0.23	0.51	438	21	46	3.1	0.32
6728RS1921	Outcrop	1.06								
6728RS1922	Outcrop	0.94								
6728RS1923	Outcrop	0.68								
6728RS1924	Outcrop	0.21								
6728RS1925	Outcrop	1.71								
6728RS1926	Outcrop	1.34								
6729RS3801	Outcrop	1.19								
6729RS3802	Outcrop	1.13	0.19	0.62	0.14	490	55	12	7.2	0.23
6729RS3833	Outcrop	0.08								

TOC = Total Organic Carbon (wt%); S1 = Free Hydrocarbons (mg/g);

S2 = Pyrolyzable Hydrocarbons (mg/g); S3 = CO2 released during pyrolysis (mg/g);

Tmax = Temperature (deg.C) of maximum evolution of S2; Hydrogen Index (HI) = [(S2/%TOC)x100];

Oxygen Index (OI) = [(S3/%TOC)x100];

Reactive Carbon (RCI) = [10x(S1+S2)/%TOC]; Transformation Ratio = S1/(S1+S2).

Figure 1. Modified van Krevelen Diagram

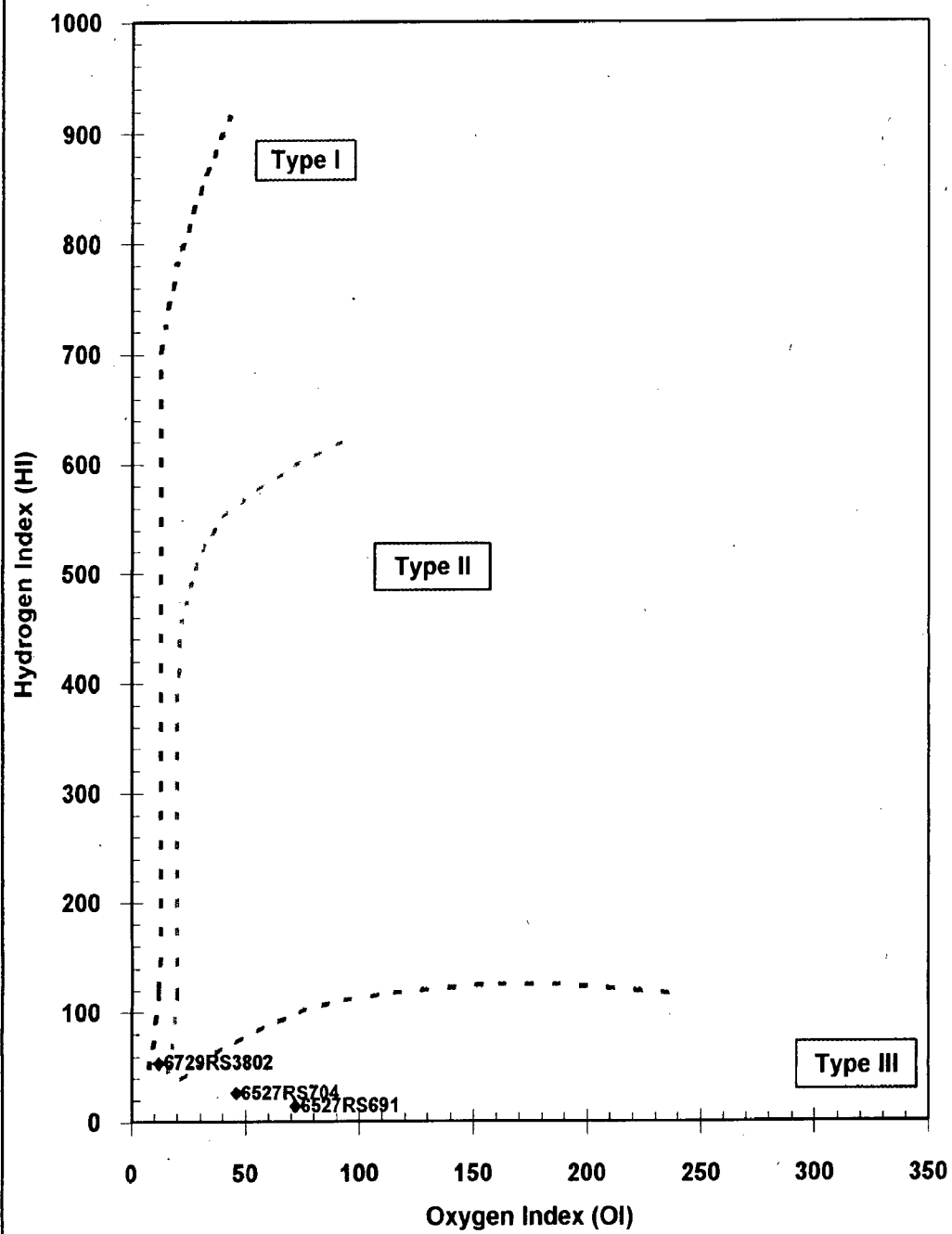


Figure 2. Rock-Eval S2 versus TOC

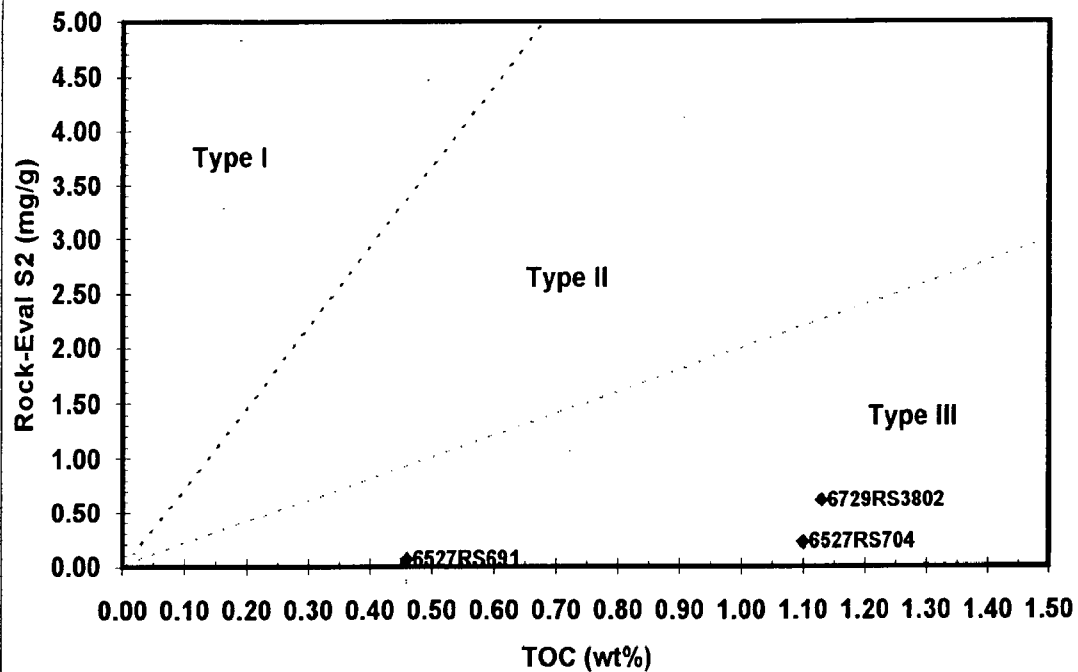


Figure 3. Reactive Carbon Index (RCI) versus Rock-Eval Tmax

