

Petroleum Systems and Geologic Assessment of Oil and Gas in the San Joaquin Basin Province, California

Chapter 11

Source-Rock Geochemistry of the San Joaquin Basin Province, California

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HI_o for all source-rock units except the Tumey formation of Atwill (1935).

Thick, organic-rich, oil-prone shales of the upper Miocene Monterey Formation occur in the Tejon depocenter in the southern part of the basin with somewhat less favorable occurrence in the Southern Buttonwillow depocenter to the north. Shales of the upper Miocene Monterey Formation generated most of the petroleum in the San Joaquin Basin. Thick, organic-rich, oil-prone Kreyenhagen Formation source rock occurs in the Buttonwillow depocenters, but it is thin or absent in the Tejon depocenter. Moreno Formation source rock is absent from the Tejon and Southern Buttonwillow depocenters, but thick, organic-rich, oil-prone Moreno Formation source rock occurs northwest of the Northern Buttonwillow depocenter adjacent to the southern edge of Coalinga field.

Abstract

Source-rock thickness and organic richness are important input parameters required for numerical modeling of the geohistory of petroleum systems. Present-day depth and thickness maps for the upper Miocene Monterey Formation, Eocene Tumey formation of Atwill (1935), Eocene Kreyenhagen Formation, and Cretaceous-Paleocene Moreno Formation source rocks in the San Joaquin Basin were determined using formation tops data from 266 wells. Rock-Eval pyrolysis and total organic carbon data (Rock-Eval/TOC) were collected for 1,505 rock samples from these source rocks in 70 wells. Averages of these data for each well penetration were used to construct contour plots of original total organic carbon (TOC_o) and original hydrogen index (HI_o) in the source rock prior to thermal maturation resulting from burial. Sufficient data were available to construct plots of TOC_o and

Introduction

The purpose of this work is to determine the regional extent, burial depth, thickness, and original organic richness of petroleum source rocks in the San Joaquin Basin Province of California. These source rocks include the upper Miocene Antelope shale of Graham and Williams (1985; hereafter called Antelope shale), shales of the Eocene Tumey formation of Atwill (1935; hereafter referred to as the Tumey formation), shales of the Eocene Kreyenhagen Formation, and shales of the Cretaceous-Paleocene Moreno Formation. Figure 11.1 is a generalized stratigraphic column for the San Joaquin Basin that identifies these principal petroleum source rocks, as well as principal reservoir rocks. Organic richness can be described by measures of the quantity (total organic carbon, TOC) and quality (Rock-Eval pyrolysis hydrogen index, HI) of organic matter in samples of source rocks (Peters and Cassa, 1994).

The formal names for petroleum systems consist of the source rock name, followed by a hyphen, the principal reservoir name, and an indication of the certainty of the correlation (Magoon and Dow, 1994). The symbols (?), (.), and (!) indicate speculative, hypothetical, and known genetic relationships, respectively. Geochemical correlation, which might include biomarker and stable carbon isotopic comparison of source-rock extracts with crude oils (Magoon and Dow, 1994; Peters and others, 2005), is needed for a system to be termed known (!). As suggested by Graham and Williams (1985) and Beyer and Bartow (1987), recent geochemical studies show that the two principal source rocks for petroleum in the San Joaquin Basin consist of the upper Miocene Antelope shale member of the Monterey Formation and shales of the middle to upper Eocene Kreyenhagen Formation (Kaplan and others, 1988; Peters and others, 1994; Lillis and Magoon, this volume, [chapter 9](#)). The Antelope-Stevens(!) petroleum system (described as the McLure-Tulare(!) north of the Bakersfield Arch) accounts for about 12.2 billion barrels of oil (BBO) and 13.1 trillion cubic feet of gas (TCFG), while the Kreyenhagen-Temblor(!) petroleum system accounts for about 1.8 BBO and 3.0 TCFG in the basin (Magoon and others, this volume, [chapter 8](#)).

Crude oils from Antelope shale and Kreyenhagen Formation source rocks are readily distinguished by their ^{13}C -rich ($\delta^{13}\text{C}$ -22 to -25‰) and ^{13}C -poor ($\delta^{13}\text{C}$ -28 to -30‰) carbon isotope compositions, respectively (Peters and others, 1994). These differences reflect an abrupt change in the isotopic composition of source-rock kerogen near the Paleogene-Neogene boundary. Marine algal kerogen is depleted in ^{13}C compared to that derived from terrigenous kerogen in Paleogene and older rocks, whereas it is enriched in ^{13}C compared to terrigenous kerogen in Neogene and younger rocks (Arthur and others, 1985). Lillis and Magoon (this volume, [chapter 9](#)) show isotope and biomarker evidence that supports these two major petroleum systems. These isotopic differences extend to the products of kerogen in oil field waters. For example, short-chain C_2 - C_5 organic acids generated from kerogen during burial migrate with oil field waters and have aliphatic carbon atoms with stable carbon isotope ratios that fall in the ranges -22.5 to -25.6‰ and -27.8 to -29.8‰, reflecting the two major sources of crude oils in the basin (Antelope shale and Kreyenhagen Formation source rocks, respectively) (Franks and others, 2001; Dias and others, 2002).

The Tumey-Temblor(.) petroleum system accounts for 0.6 BBO and 2.1 TCFG in the San Joaquin Basin (Magoon and others, this volume, [chapter 8](#)). Unlike the other petroleum systems in this study, the Tumey-Temblor(.) petroleum system is hypothetical because no definitive geochemical correlations have been published, but circumstantial geochemical and geologic evidence suggests that a genetic oil-source rock correlation exists (Lillis and Magoon, this volume, [chapter 9](#)).

The Moreno-Nortonville(.) petroleum system probably accounts for only about 158 thousand barrels of oil (MBO) and about 183 billion cubic feet of hydrocarbon gas (BCFG), mostly in the Oil City pool of Coalinga field (Magoon and

others, this volume, [chapter 8](#)). Geological and geochemical evidence suggests that the Moreno Formation source rock accounts for the Oil City pool (Peters and others, 1994), but an attempt to correlate the oil with pyrolyzed Moreno Formation (Marca Shale Member) source rock was not convincing (Fonseca-Rivera, 1998).

Methods

Figure 11.2 is an index map that shows the locations of wells in the study area that had depth and thickness data; these data were used to construct figures 11.4 through 11.10. Figure 11.3 is an index map that shows locations of wells with Rock-Eval pyrolysis and total organic carbon (TOC) data; these data were used to construct figures 11.11 through 11.16. The thickness, TOC, and Rock-Eval hydrogen index contour maps were created using ArcInfo® (Version 8.1.2), a commercial Geographic Information System (Environmental Systems Research Institute, Redlands, California).

Source-rock burial depth (figs. 11.4 through 11.7) and thickness maps (figs. 11.8 through 11.10) were constructed using well log data from 266 wells correlated on six regional cross sections published by the Pacific Section of the American Association of Petroleum Geologists (PS-AAPG, 1957a,b, 1958a,b, 1959, 1989). Using these data, the distribution, depth, and thickness of the Antelope shale, Tumey formation, Kreyenhagen Formation, and Moreno Formation source rocks were constrained by 82, 71, 79, and 34 wells, respectively (tables 11.1 through 11.4). The top and bottom of each source rock were determined from the PS-AAPG cross sections using the following general criteria and unit names. The top of the Antelope shale was equated with the top McLure Shale Member of the Monterey Formation, the “N” point electrical marker, or top Mohnian age units, depending on the cross section location. The base of the Antelope shale was equated with the top Temblor Formation, top Devilwater Shale and Gould Shale intervals (both members of the Monterey Formation), or top of Luisian age units (fig. 11.1). The McDonald Shale Member of the Monterey Formation was included in the Antelope shale interval. The Tumey formation lies at the top of the Kreyenhagen Formation or at the base of the Refugian age units. The top of the Tumey formation coincides with the base of the Cymric Shale Member of the Temblor Formation, the Leda sand of Sullivan (1963), or the base of Zemorrian age units (fig. 11.1). The top of the Kreyenhagen Formation occurs below the Tumey formation or Oceanic sand of McMasters (1948). The bottom of the Kreyenhagen Formation coincides with the top of the Domengine Sandstone, Gatchell sand of Goudkoff (1943), upper McAdams sandstone of Sullivan (1963), Arroyo Hondo Shale Member of the Lodo Formation, or basement (fig. 11.1), depending on the cross section location. The top of the Moreno Formation was equated with the base of the Martinez Formation, the base of the Arroyo Hondo Shale, or the top of the Garzas Sandstone Member of the Moreno Formation, whereas the base of the Moreno Forma-

tion coincides with the top of the Panoche Formation and the Ragged Valley silt of Hoffman (1964) (fig. 11.1).

The wells used for depth and thickness data generally do not correspond to wells with Rock-Eval pyrolysis/TOC data, as discussed below. These source-rock maps were generated independently from the maps presented by Hosford Scheirer (this volume, [chapter 7](#)), who considered formations rather than individual sandstone or shale members within formations.

Table 11.5 identifies the wells in this study that have Rock-Eval/TOC data. These data summarize 1,505 Rock-Eval/TOC analyses (table 11.6) that originated from various studies cited in the table, but all were obtained using methods and instrumentation similar to that described in Peters and Cassa (1994). TOC was determined by the direct combustion method using pulverized rock samples pre-treated with hydrochloric acid in Leco filtering crucibles. Splits of the rock samples were crushed to fine-sand particle size (0.125 to 0.25 mm) and 100-mg aliquots were pyrolyzed using standard Rock-Eval pyrolysis procedures and apparatus, where every twentieth sample consisted of a rock standard for calibration of response (Peters, 1986). The Rock-Eval/TOC data were screened using criteria similar to those in Peters and Cassa (1994) to remove spurious data, such as samples that were affected by migrated oil or drilling additives.

The original total organic carbon and original hydrogen index in table 11.5 are average values for samples within the specific source-rock interval(s) penetrated by each well. Rock-Eval pyrolysis/total organic carbon analyses were assigned to specific source-rock units by comparing the depth and thickness represented by each sample from the wells to contour maps derived from the correlated cross sections. The number of analyzed samples (*n*) within each interval in a well ranges from 1 to 190, but averages about 18. Measured total organic carbon and hydrogen index values for thermally mature samples ($T_{\text{max}} > 440^{\circ}\text{C}$) are generally less than original total organic carbon and original hydrogen index due to generation of petroleum. These measured total organic carbon and hydrogen index values were corrected to yield original total organic carbon and original hydrogen index using the method described in Peters and others (2005).

Discussion

Present-day burial depth (figs. 11.4 through 11.7) and thickness maps (figs. 11.8 through 11.10) show the distribution and thickness of each source-rock unit based on well log and outcrop data. Key depocenters and oil or gas fields in the discussion are labeled in figures 11.4 through 11.7 to simplify the remaining figures. Ziegler and Spotts (1978) defined the Tejon and Buttonwillow depocenters in the San Joaquin Basin. In our paper, we retain the Tejon depocenter but split the Buttonwillow depocenter into northern (Kettleman area) and southern (Lost Hills area; figs. 11.4 and 11.5) sections. Source-rock richness maps include data on the quantity (TOC, figs. 11.11

through 11.13) and quality (Rock-Eval HI, figs. 11.14 through 11.16) of organic matter based on analyses of rock samples.

Upper Miocene Antelope shale

Geochemical oil-oil and oil-source rock correlations (Lillis and Magoon, this volume, [chapter 9](#)) confirm earlier studies (see, for example Seifert, 1978; Kaplan and others, 1988; Peters and others, 1994), which indicated that most known oil accumulations in the San Joaquin Basin Province originated from Monterey Formation source rocks of middle to late Miocene age. Biosiliceous facies of the Antelope shale are the principal source rocks within the Monterey Formation (Graham and Williams, 1985).

The Antelope shale consists mainly of siliceous shale but includes deep-water turbidites of the Stevens sand of Eckis (1940; hereafter referred to as the Stevens sand) (fig. 11.1). For this study, the Antelope shale includes the McLure Shale Member of the Monterey Formation north of the Bakersfield Arch and the Antelope shale and the McDonald Shale Member of the Monterey Formation to the south of the arch. The Antelope shale occupies an axial position in the basin and is widespread, extending as far north as the Riverdale oil field and nearly as far south as the Tejon oil field (fig. 11.4). It grades into nonmarine facies about 15 to 25 miles (24 to 40 km) from the eastern province boundary and is exposed at the surface about 5 to 15 miles (8 to 24 km) from the western province boundary and the San Andreas Fault.

Thick Antelope shale source rock occurs in the southern San Joaquin Basin. The thickness map of Antelope shale (fig. 11.8) was determined on the basis of 82 well penetrations (table 11.1). A broad area from the eastern edge of the Paloma oil field to the northern and southern edges of the Midway-Sunset oil field has more than 3,000 ft (914 m) of Antelope shale. As much as 5,000 ft (1,524 m) of Antelope shale occurs near the northern extension of the Midway-Sunset field. Much of this area includes deeply buried Antelope shale within the Southern Buttonwillow and Tejon depocenters (fig. 11.4). Antelope shale generally ranges between 500 and 1,000 ft (152 to 914 m) thick in the Southern and Northern Buttonwillow depocenters, but is 3,000 to 4,000 ft (914 to 1,220 m) thick in the Tejon depocenter.

On the basis of Rock-Eval/TOC data for 944 samples (485 cores and 459 cuttings samples) averaged among 43 control wells (table 11.5), the Antelope shale source rock has original total organic carbon and original hydrogen index as much as 5.6 weight percent (0.7 to 5.6 weight percent range) and 689 milligrams hydrocarbon/gram TOC (111 to 689 mg HC/g TOC range), respectively. Samples of the Stevens sand are organic-lean and were not included in the reported Rock-Eval/TOC analyses. Average values among the wells indicate very good quantities (average 2.9 ± 1.1 weight percent TOC) of oil-prone type II organic matter (average HI = 345 ± 122 mg HC/g TOC) according to the definitions of Peters and Cassa (1994) for the quantity and quality of organic matter.

The most oil-prone facies of the Monterey Formation consists of “mat-laminated lithotype,” which averages about 5 weight percent TOC (Graham and Williams, 1985). Despite a broad depth range among the 944 samples (1,030 to 16,320 ft., 313 to 4,974 m), the average Tmax for Antelope shale intervals in the wells was 419°C. Tmax ranged from 397° to 432°C, except for one well where average Tmax of the Antelope shale was 445°C (table 11.5). The TOC and HI of the Antelope shale in the latter well were corrected for lost generative potential caused by thermal maturation during burial (Peters and others, 2005).

Except for an area near the Tejon depocenter in the southern part of the study area, most of the Antelope shale source rock south of Kettleman Middle Dome oil field contains more than 2 weight percent of original total organic carbon (fig. 11.11). The low original total organic carbon (and possibly also the original hydrogen index) near the Tejon depocenter in figure 11.11 may require revision to higher values because the sampled intervals in three control wells only penetrate the upper portion of the Antelope shale source rock and may not be representative of deeper, more organic-rich Antelope shale (table 11.6). South of Kettleman Middle Dome field, original hydrogen index generally exceeds 300 mg HC/g TOC, except for an area in the eastern part of the study area extending as far south as the Bakersfield Arch (fig. 11.14). The most favorable combination of thick, deeply buried, organic-rich Antelope shale occurs near the Tejon depocenter, but significant generation might also be expected within the Southern Buttonwillow depocenter (fig. 11.4).

Eocene Tumey formation

The shaly portion of the Tumey formation is a relatively thin calcareous shale unit that lies on the Kreyenhagen Formation and probably covers much of the same area. It extends nearly to the northern edge of the province and as far south as the Paloma oil field (fig. 11.5). Geochemical oil-oil and oil-source rock correlations reviewed by Lillis and Magoon (this volume, chapter 9) were not conclusive, but suggest that oil was expelled from the Tumey formation into adjacent traps. Although distinct, the oils inferred to be generated from the Tumey formation are more geochemically similar to oils from the Kreyenhagen Formation than oils from the Antelope shale or Moreno Formation. The genetic correlation of the oils from the Tumey formation to extracts of Tumey formation source rock remains tentative and the possibility that some of these oils are mixtures generated from the Antelope shale and Kreyenhagen Formation cannot be excluded.

Thickness and organic richness maps of the Tumey formation were not prepared in this paper for two reasons: (1) the formation is commonly not differentiated from Kreyenhagen Formation on well logs, and (2) the available TOC and HI data did not allow sufficient regional control to generate useful richness maps, as discussed below. The available depth and thickness data for the Tumey formation are in table 11.2.

Figure 11.5 shows a tentative depth map for the Tumey formation. The data for 79 control wells (table 11.5) show that the Tumey formation is generally less than 200 ft (61 m) thick, but is about 400 to 500 ft (122 to 152 m) thick near the Lost Hills field.

Because Rock-Eval/TOC data are currently insufficient to reliably characterize the Tumey formation, our petroleum systems model of the San Joaquin Basin (Peters, Magoon, Lampe and others, this volume, chapter 12) used constant original total organic carbon and original hydrogen index values throughout the mapped extent of the unit. Rock-Eval pyrolysis/TOC data for the Tumey formation were available for only 25 samples (5 cores and 20 cuttings samples) averaged among 6 wells (table 11.5). On the basis of these limited data, the Tumey formation source rock has original total organic carbon and original hydrogen index values as high as 3.2 weight percent (0.9 to 3.2 weight percent range) and 658 mg HC/g TOC (134 to 658 mg HC/g TOC range), respectively. Average values among the wells indicate good quantities (average 1.8 ± 0.6 weight percent) of oil-prone type II organic matter (average original hydrogen index = 311 ± 85 mg HC/g TOC). The samples range in depth from 3,462 to 17,600 ft (1,055 to 5,364 m) with average Tmax of 426°C over a range of 410° to 439°C.

Eocene Kreyenhagen Formation

Geochemical oil-oil and oil-source rock correlations (Lillis and Magoon, this volume, chapter 9) confirm earlier studies (see, for example Seifert, 1978; Kaplan and others, 1988; Peters and others, 1994), which indicate that the Kreyenhagen Formation source rock is second only to the Antelope shale source rock with respect to the amount of oil generated in the San Joaquin Basin. The Kreyenhagen Formation extends nearly to the northern edge of the province and as far south as the Paloma oil field (fig. 11.6). The Kreyenhagen Formation trends northwest-southeast along the axis of the basin and covers an area in the subsurface as much as 50 miles (80 km) wide.

The Kreyenhagen Formation consists mainly of biosiliceous shale, but includes the Point of Rocks Sandstone Member, a deep-water turbidite sandstone facies. The formation is thin or absent in the Tejon depocenter and ranges between 400 and 800 ft (152 to 305 m) thick in the Southern and Northern Buttonwillow depocenters (fig. 11.9).

On the basis of Rock-Eval/TOC data for 210 samples (69 conventional and sidewall cores and 141 cuttings) averaged among 21 wells (table 11.5), the Kreyenhagen Formation source rock has original total organic carbon and original hydrogen index as much as 4.7 weight percent (0.7 to 4.7 weight percent range) and 578 mg HC/g TOC (25 to 578 mg HC/g TOC range), respectively. Average values among the wells indicate very good quantities (average 2.7 ± 1.1 weight percent) of type II organic matter (average original hydrogen index = 302 ± 155 mg HC/g TOC; Peters and Cassa, 1994). The samples range in depth from 1,750 to 19,090 ft (533 to 5,819 m) with average Tmax of 430°C and a range of 413° to 453°C. Samples with Tmax of

442°, 444°, 452°, and 453°C and a sample without measured Tmax (assumed to be about 445°C) required correction of measured TOC and HI for lost generative potential during thermal maturation using the method described by Peters and others (2005).

The Kreyenhagen Formation has as much as 4 to 5 weight percent original total organic carbon in two areas: near the southern end of the Lost Hills field and the northern end of Kettleman North Dome field (fig. 11.12). Data from one well (KCL G-1, table 11.5) suggest original total organic carbon values near 5 weight percent in the Bakersfield Arch area north of the Tejon depocenter. Original hydrogen index values as high as about 550 to 600 mg HC/g TOC occur to the northeast of Coalinga field and immediately east of Kettleman North Dome field (fig. 11.15). High values of original hydrogen index also occur in a small area north of the Tejon depocenter. The close correspondence of high original total organic carbon and original hydrogen index values, combined with reasonably thick source rock and deep burial, are highly favorable for generation of petroleum from the Kreyenhagen Formation in the Northern Buttonwillow depocenter near Kettleman North Dome field.

Cretaceous-Paleocene Moreno Formation

The Maastrichtian-Danian Moreno Formation includes organic-rich biosiliceous intervals, particularly in the Marca Shale and Dos Palos Shale Members (Fonseca-Rivera, 1998). The formation extends nearly to the northern edge of the province, where sandstone content is highest, to as far south as the southern end of the Kettleman North Dome field, where the shale content is highest (fig. 11.7; McGuire, 1988). The Moreno Formation extends in the subsurface for about 35 miles (56 km) from east to west and trends northwest-southeast through the basin.

On the basis of Rock-Eval/TOC data for 326 samples (284 cores and 42 cuttings) averaged among 13 wells (table 11.5), the Moreno Formation source rock has original total organic carbon and original hydrogen index values as much as 3.7 weight percent (0.7 to 3.7 weight percent range) and 382 mg HC/g TOC (23 to 382 mg HC/g TOC range), respectively. Average values among the wells indicate good quantities (average 2.1 ± 0.8 weight percent) of gas-prone type III organic matter with some potential to generate light oil (average original hydrogen index = 190 ± 108 mg HC/g TOC). The samples range in depth from 269 to 13,517 ft (82 to 4,120 m) with average Tmax of 420°C over a range of 409° to 430°C.

The most favorable combination of thick, deeply buried, organic-rich Moreno Formation source rock occurs south and southeast of the Oil City pool of Coalinga field (figs. 11.10 and 11.16). Geochemical data show that samples of oil from the Oil City pool are geochemically distinct from other crude oils in the San Joaquin Basin and suggest an origin from the Moreno Formation (Peters and others, 1994; Lillis and Magoon, this volume, chapter 9). However, an attempt to geochemically cor-

relate oil from the Oil City pool with extracts from pyrolyzed Moreno Formation source rock was inconclusive (Fonseca-Rivera, 1998). Oil-source rock correlation by Lu and Kaplan (1987) suggested that oils from the Vallecitos, Helm, and Cheney Ranch fields could originate from either the Moreno Formation or Kreyenhagen Formation source rocks, but recent work by Lillis and Magoon (this volume, chapter 9) shows that oils from all three of these fields originated from Kreyenhagen Formation source rock. Recent work by Magoon and others (this volume, chapter 8) and Peters, Magoon, Lampe and others (this volume, chapter 12) confirms that the Moreno Formation generates mainly hydrocarbon gases and light oil rather than oil.

Conclusions

Thick, organic-rich potential source rocks cannot become effective source rocks without sufficient burial and thermal maturation. Because the effective source rocks in the San Joaquin Basin are now at or near their maximum burial depth, comparison of thickness and organic richness information for these rocks can be simplified by focusing on depocenters. This approach can provide qualitative information on the most likely locations for significant petroleum generation prior to more rigorous numerical petroleum systems modeling (Peters, Magoon, Lampe and others, this volume, chapter 12).

Table 11.6 shows a qualitative comparison of thickness, original total organic carbon, and original hydrogen index for the Antelope shale, Kreyenhagen Formation, and Moreno Formation source rocks in local depocenters or areas within the San Joaquin Basin. The table provides conclusive evidence that the Antelope shale generated more petroleum than other source rocks in the basin. The Tejon depocenter is the most favorable location for petroleum generation from the Antelope shale. At depths greater than 12,000 ft (3,658 m) in this depocenter, the source rock is about 3,000 to 4,000 ft (914 to 1,219 m) thick. Furthermore, the source rock at this location had very good quantities of original total organic carbon (about 2.0 to 5.5 weight percent) and contained mainly oil-prone type II organic matter (original hydrogen index > 300 mg HC/g TOC) prior to thermal maturation (Peters and Cassa, 1994). The Southern Buttonwillow depocenter contains Antelope shale having similar organic richness, although the section is not as thick as that in the Tejon depocenter. The Northern Buttonwillow depocenter contains Antelope shale with original total organic carbon and original hydrogen index that are significantly reduced compared to the Southern Buttonwillow or Tejon depocenters. For example, Antelope shale in the Northern Buttonwillow depocenter had only 1 to 2 weight percent original total organic carbon. Calculations suggest that regardless of original hydrogen index, expulsion efficiencies for rocks containing less than 1 to 2 weight percent original total organic carbon will be low (Peters and others, 2005). This is consistent with petrographic observations of the Woodford Shale and related units from Oklahoma, which suggest that rocks with less than 2.5 weight percent original total organic

carbon may be incapable of establishing a continuous bitumen network for primary migration and expulsion (Lewan, 1987).

Unlike the Antelope shale, data for the Kreyenhagen Formation in table 11.6 indicate that it is an effective source rock in the Northern Buttonwillow depocenter, but becomes progressively thinner and more organic-lean to the south. A more rigorous and quantitative numerical modeling approach employs these data as input, but also considers burial history, the kinetics of oil generation from different kerogen types, and heat flow history (Peters, Magoon, Lampe and others, this volume, [chapter 12](#)). For example, the Moreno Formation source rock has thickness and organic richness similar to the younger Kreyenhagen Formation source rock to the south and southeast of the Coalinga field near the Jacalitos field, but generated and expelled most petroleum much earlier (Paleocene-Eocene time). In this way, numerical models go beyond traditional treatments of petroleum systems to provide additional information on the location and extent of the pod of active source rock, migration pathways and timing relative to trap formation, and estimates of the amounts of petroleum generated and trapped in reservoir rocks.

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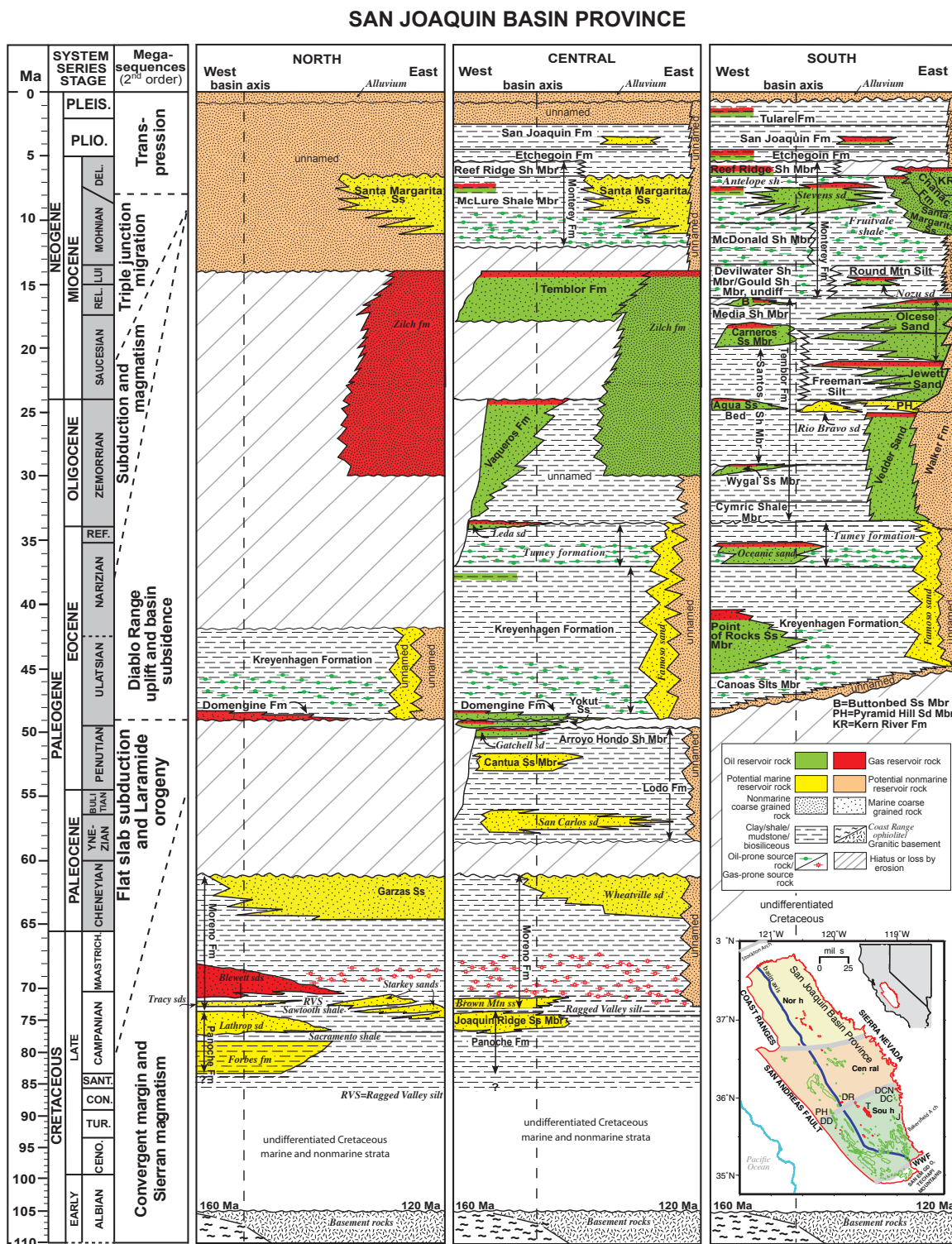
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Figures



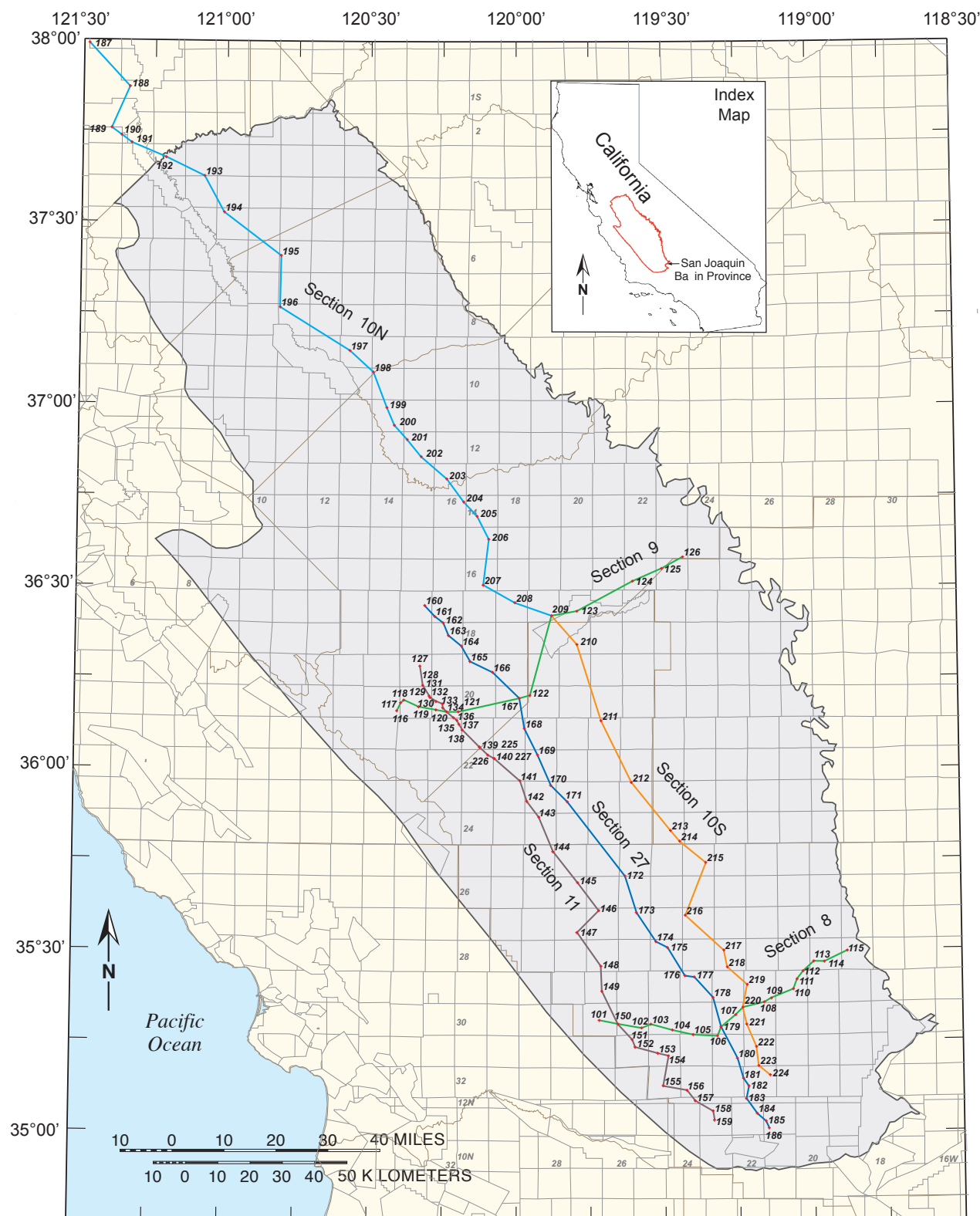


Figure 11.2. Map shows locations of wells (red crosses; tables 11.1 through 11.4) used to construct the depth and thickness maps in figures 11.4 through 11.10. Inset shows location of study area within California. Numbered wells are located along six cross sections (Sections 8, 9, 10N, 10S, 11, and 27) compiled by the Pacific Section American Association of Petroleum Geologists (PS-AAPG, 1957a,b, 1958a,b, 1959, 1989). Thin brown lines in figures 11.2 through 11.16 are county boundaries; gray shaded area in these figures is San Joaquin Basin Province. Thin gray lines are California townships and ranges.

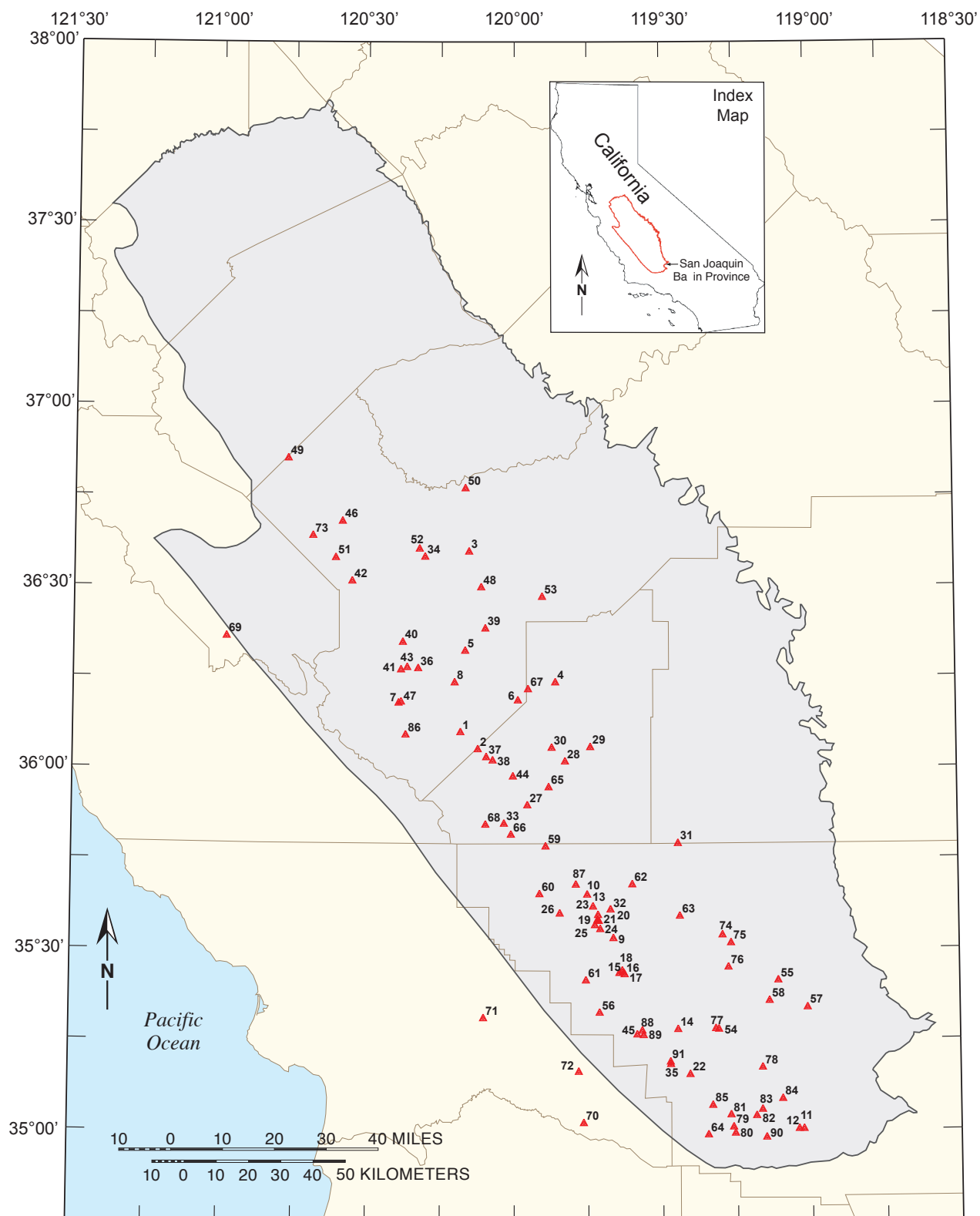


Figure 11.3. Map shows locations of wells (red triangles; table 11.5) used to construct original total organic carbon (TOC_o; figs. 11.11 through 11.13) and original hydrogen index (HI_o; figs. 11.14 through 11.16) maps.

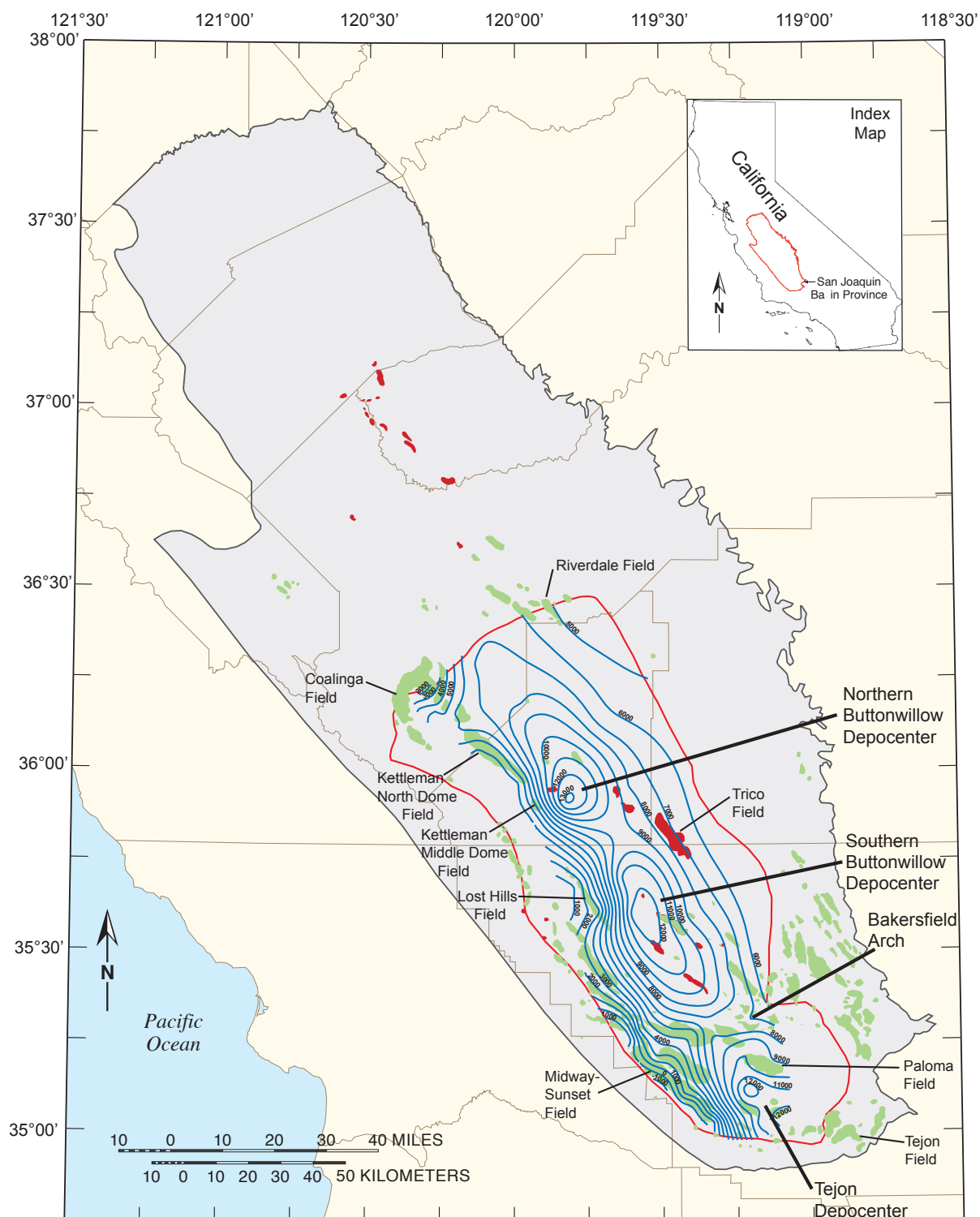


Figure 11.4. Contour map of present-day burial depth in feet (blue contours) for the Antelope shale source rock in the San Joaquin Basin Province (gray outline) based on data from 82 wells (table 11.1, fig. 11.2). Features include the zero edge for the Antelope shale (zero thickness, red outline), the Tejon, Southern Buttonwillow, and Northern Buttonwillow depocenters, the Bakersfield Arch, and known oil (green) and gas (red) fields.

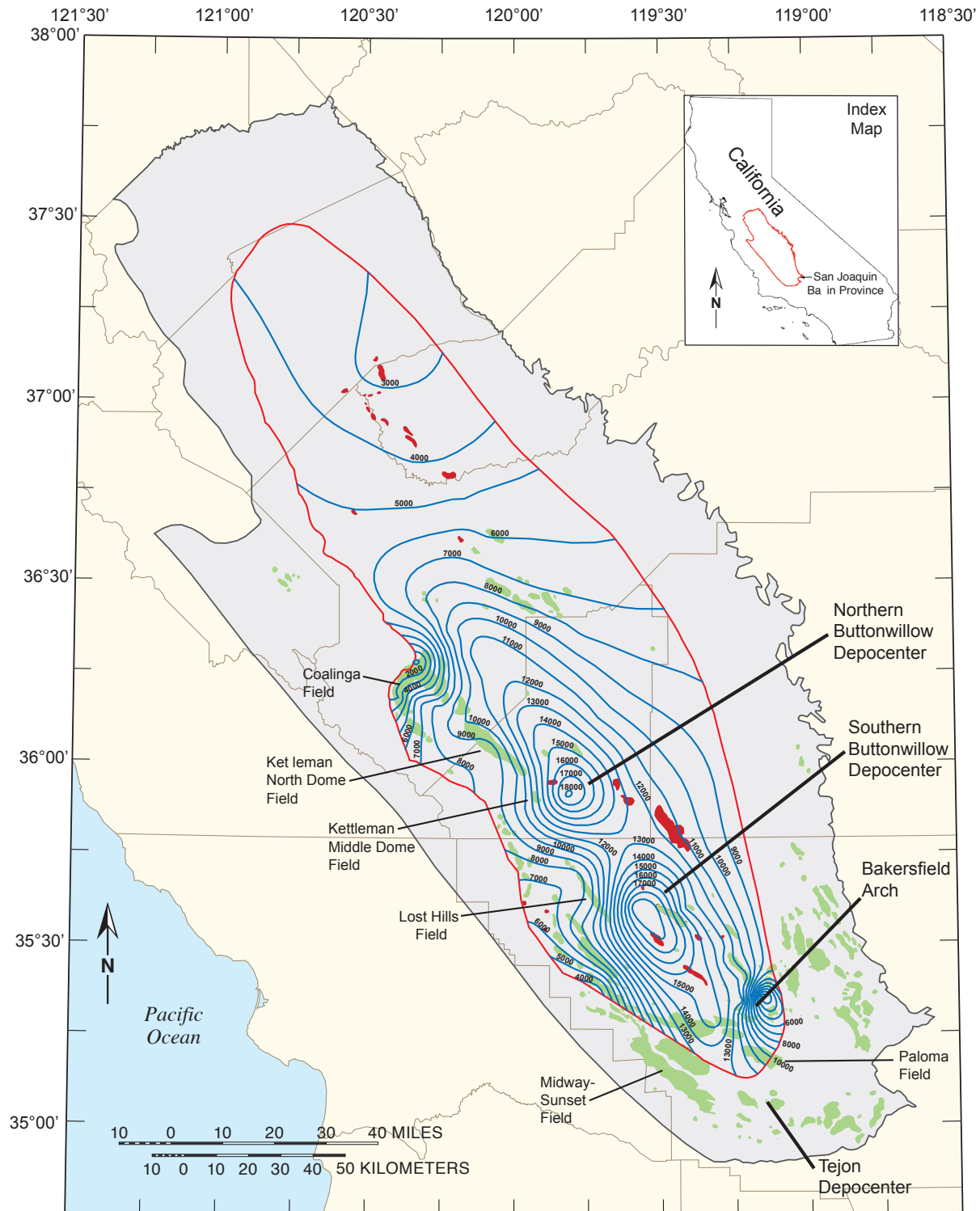


Figure 11.5. Contour map of present-day burial depth in feet (blue contours) for the Tumey formation source rock in the San Joaquin Basin Province (gray outline) based on data from 71 wells (table 11.2, fig. 11.2). Features include the zero edge for the Tumey formation (zero thickness, red outline), the Tejon, Southern Buttonwillow, and Northern Buttonwillow depocenters, the Bakersfield Arch, and known oil (green) and gas (red) fields. Map is tentative because of problems with identifying the Tumey formation on well logs.

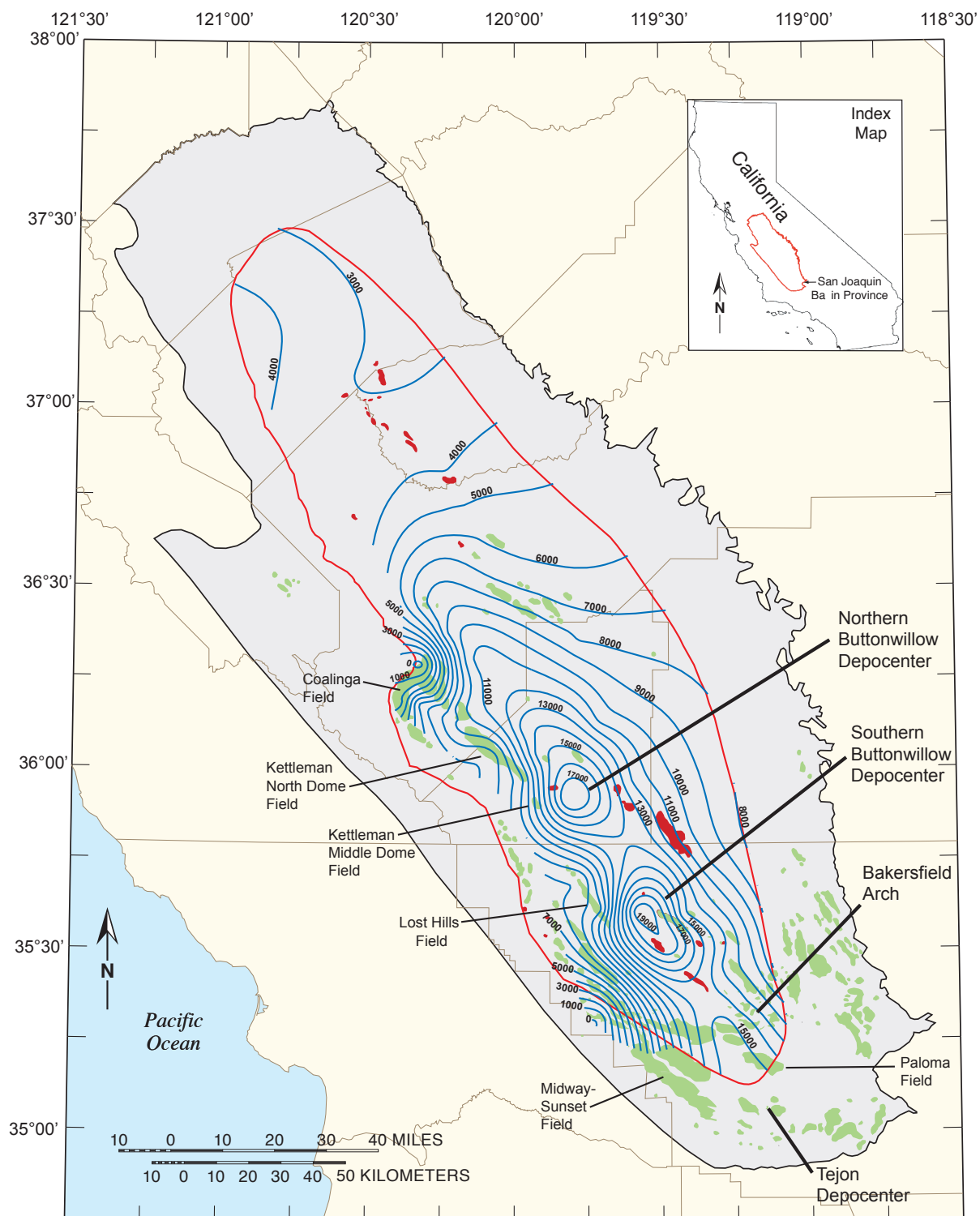


Figure 11.6. Contour map of present-day burial depth in feet (blue contours) for the Kreyenhagen Formation source rock in the San Joaquin Basin Province (gray outline) based on data from 79 wells (table 11.3, fig. 11.2). Features include the zero edge for the Kreyenhagen Formation (zero thickness, red line), the Tejon, Southern Buttonwillow, and Northern Buttonwillow depocenters, the Bakersfield Arch, and known oil (green) and gas (red) fields.

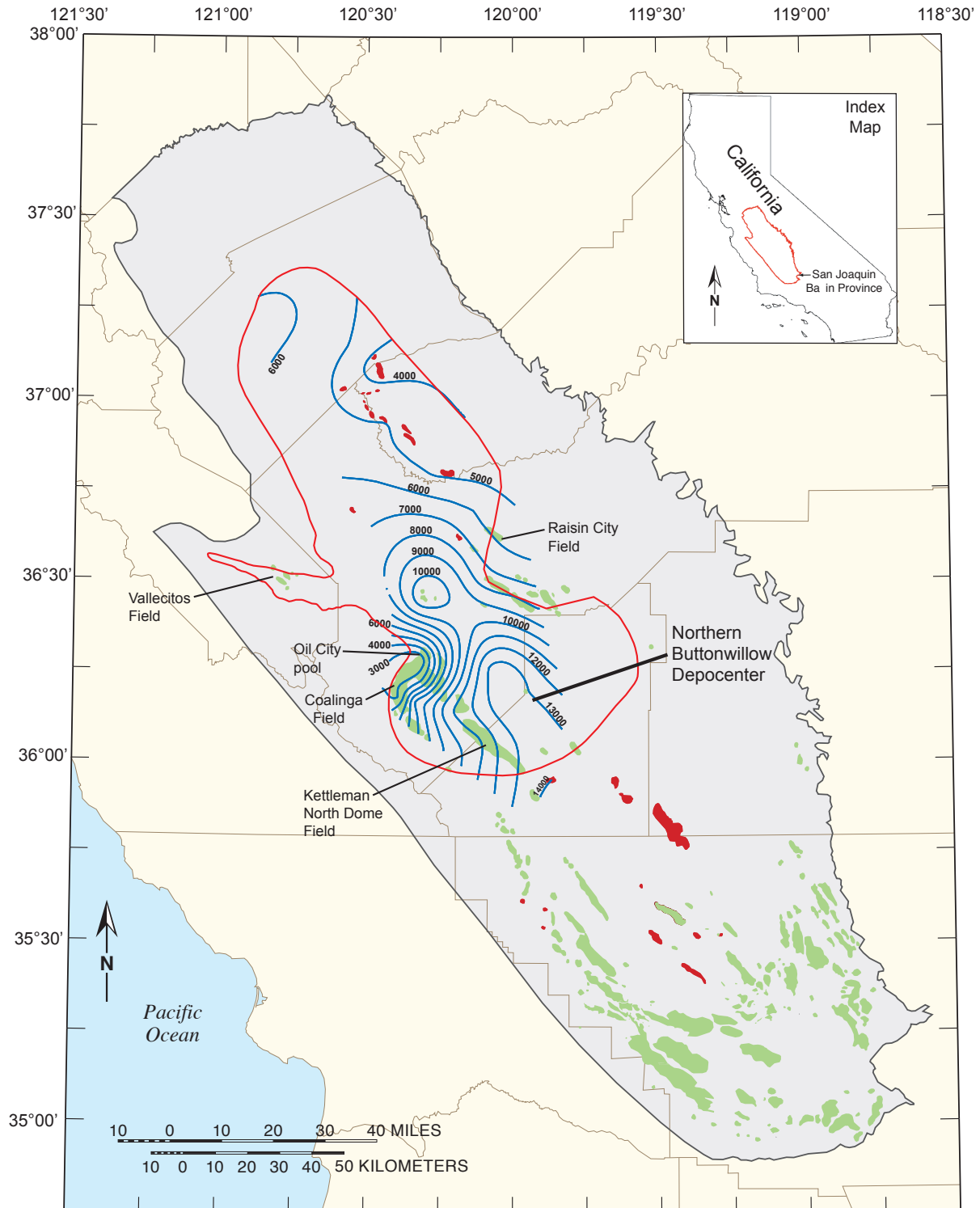


Figure 11.7. Contour map of present-day burial depth in feet (blue contours) for the Moreno Formation source rock in the San Joaquin Basin Province (gray outline) based on data from 34 wells (table 11.4, fig. 11.2). Features include the zero edge for the Moreno Formation (zero thickness, red line), the Northern Buttonwillow depocenter, and known oil (green) and gas (red) fields.

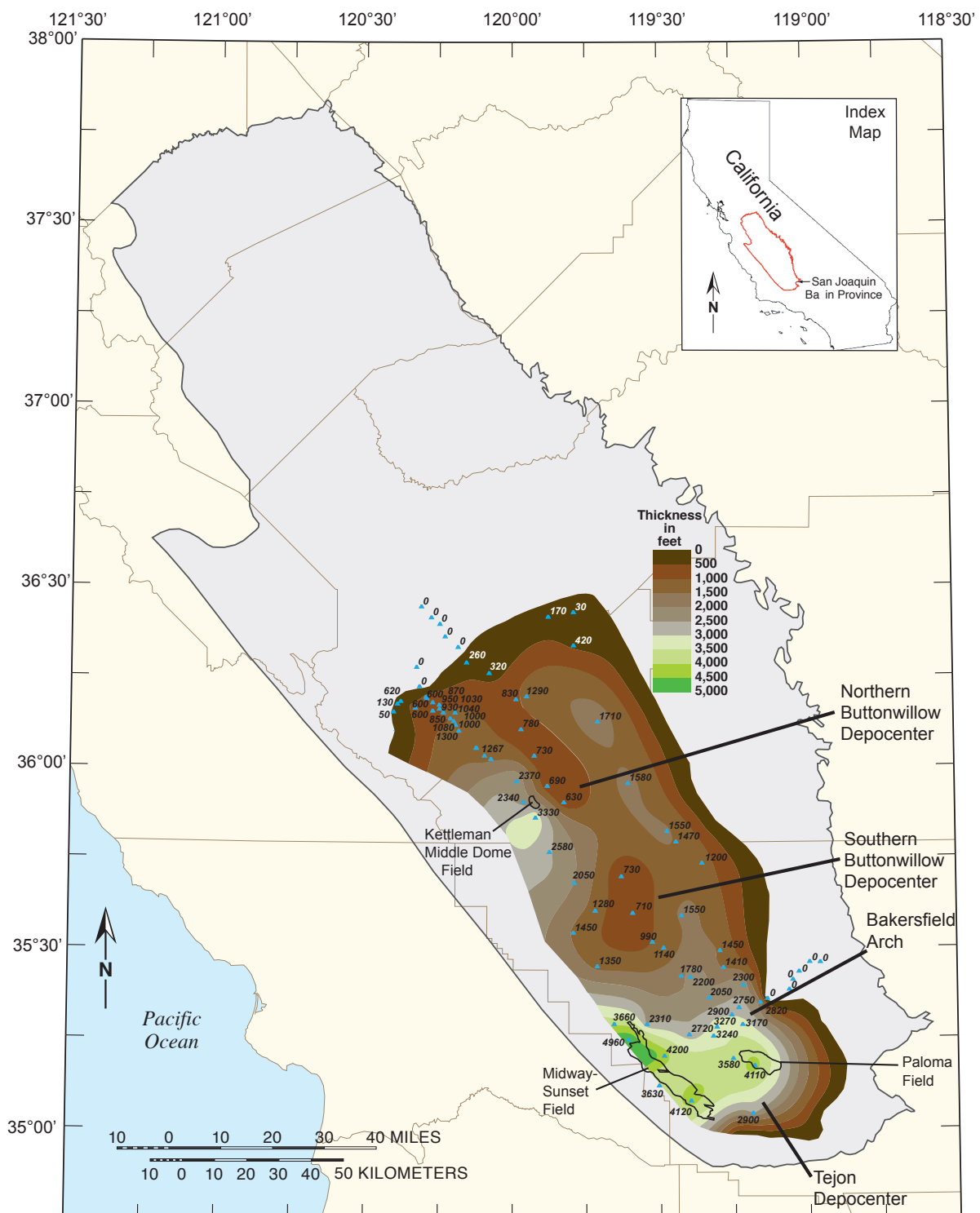


Figure 11.8. Present-day thickness map shows extent and thickness of the Antelope shale source rock in the San Joaquin Basin Province (gray outline) based on data from 82 wells (blue triangles; table 11.1). Numbers adjacent to well locations indicate measured thickness in feet.

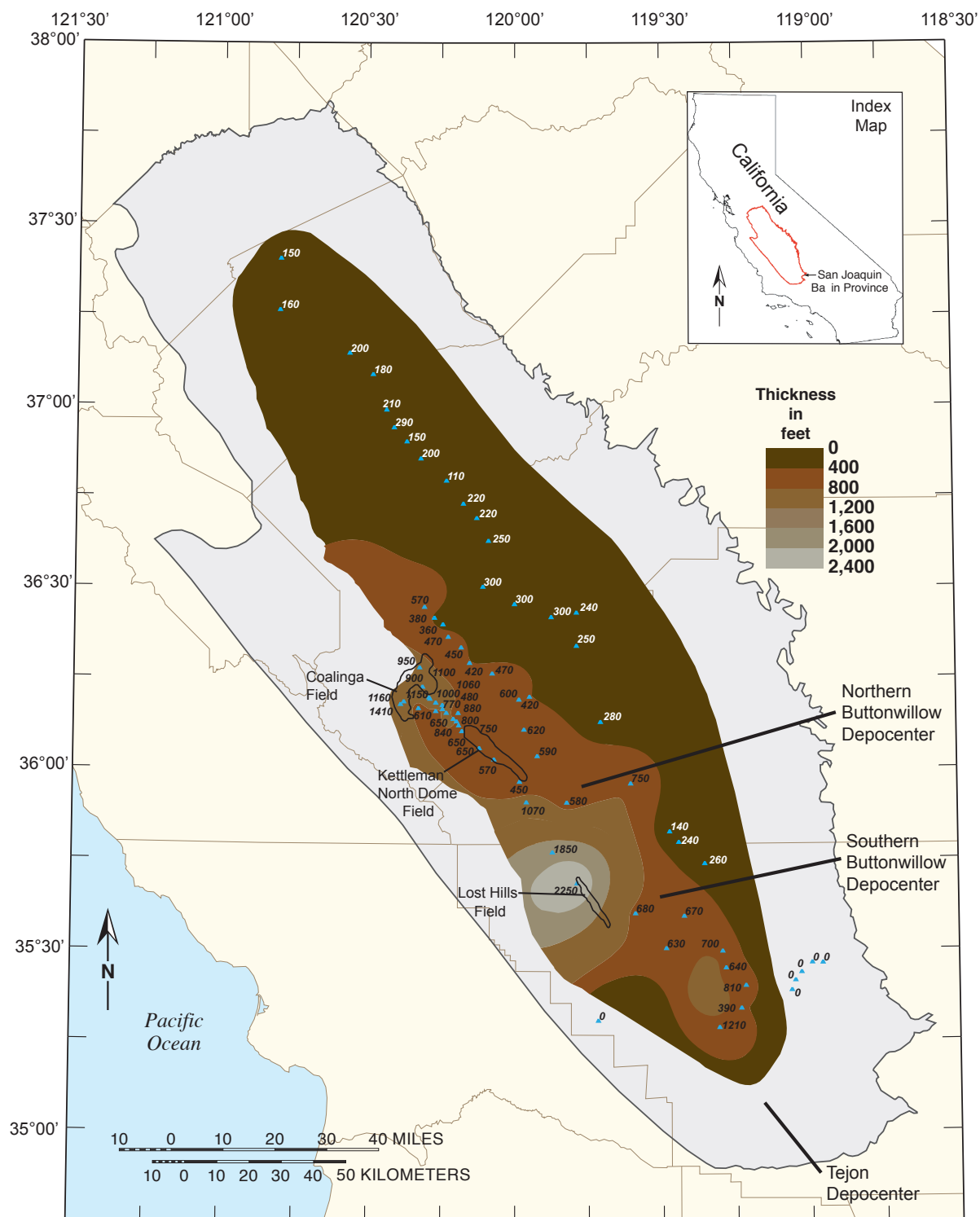


Figure 11.9. Present-day thickness map shows extent and thickness of the Kreyenhagen Formation source rock in the San Joaquin Basin Province (gray outline) based on data from 79 wells (blue triangles; table 11.3). Numbers adjacent to well locations indicate measured thickness in feet.

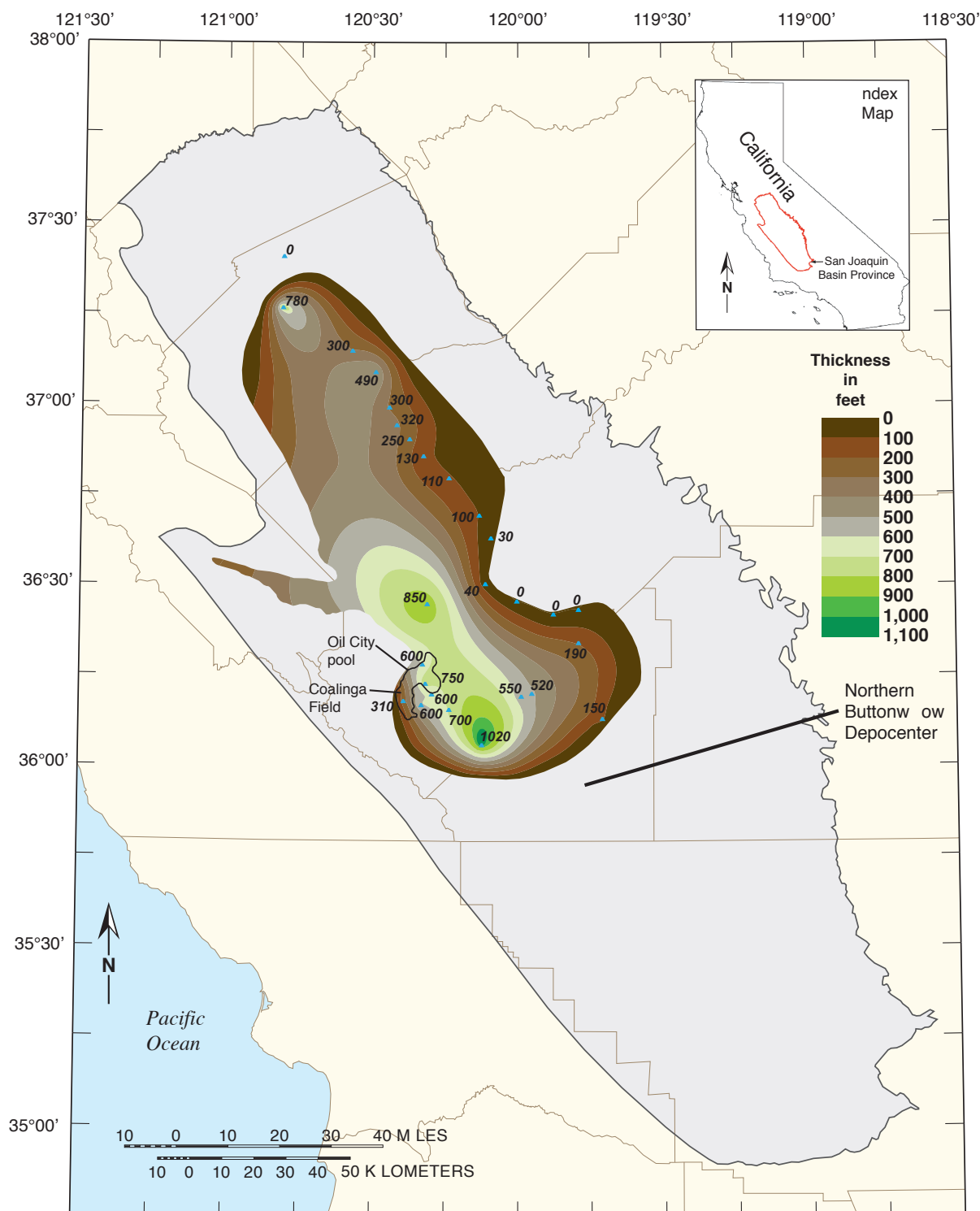


Figure 11.10. Present-day thickness map shows extent and thickness of the Moreno Formation source rock in the San Joaquin Basin Province (gray outline) based on data from 34 wells (blue triangles; table 11.4). Numbers adjacent to well locations indicate measured thickness in feet.

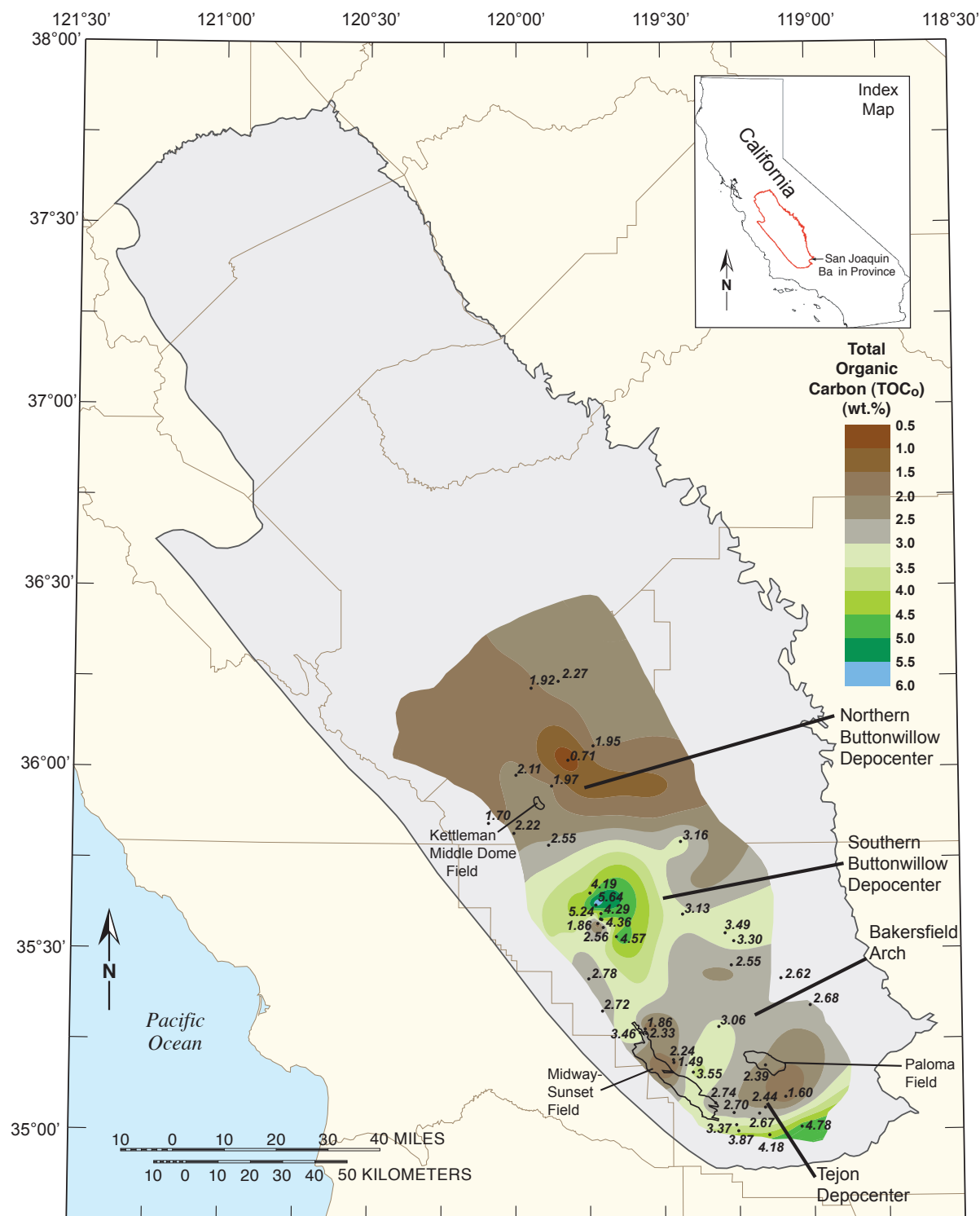


Figure 11.11. Original total organic carbon (TOC_o) map for the Antelope shale source rock in the San Joaquin Basin Province (gray outline) is based on average TOC_o from 43 wells (filled circles; 944 samples, table 11.5). For samples showing high thermal maturity ($T_{\max} > 440^{\circ}\text{C}$), total organic carbon (TOC) was corrected to TOC_o to compensate for the effects of thermal maturation due to burial using the method of Peters and others (2005). Less mature samples required no correction ($\text{TOC} = \text{TOC}_o$). Numbers adjacent to well locations indicate average original total organic carbon content (weight percent).

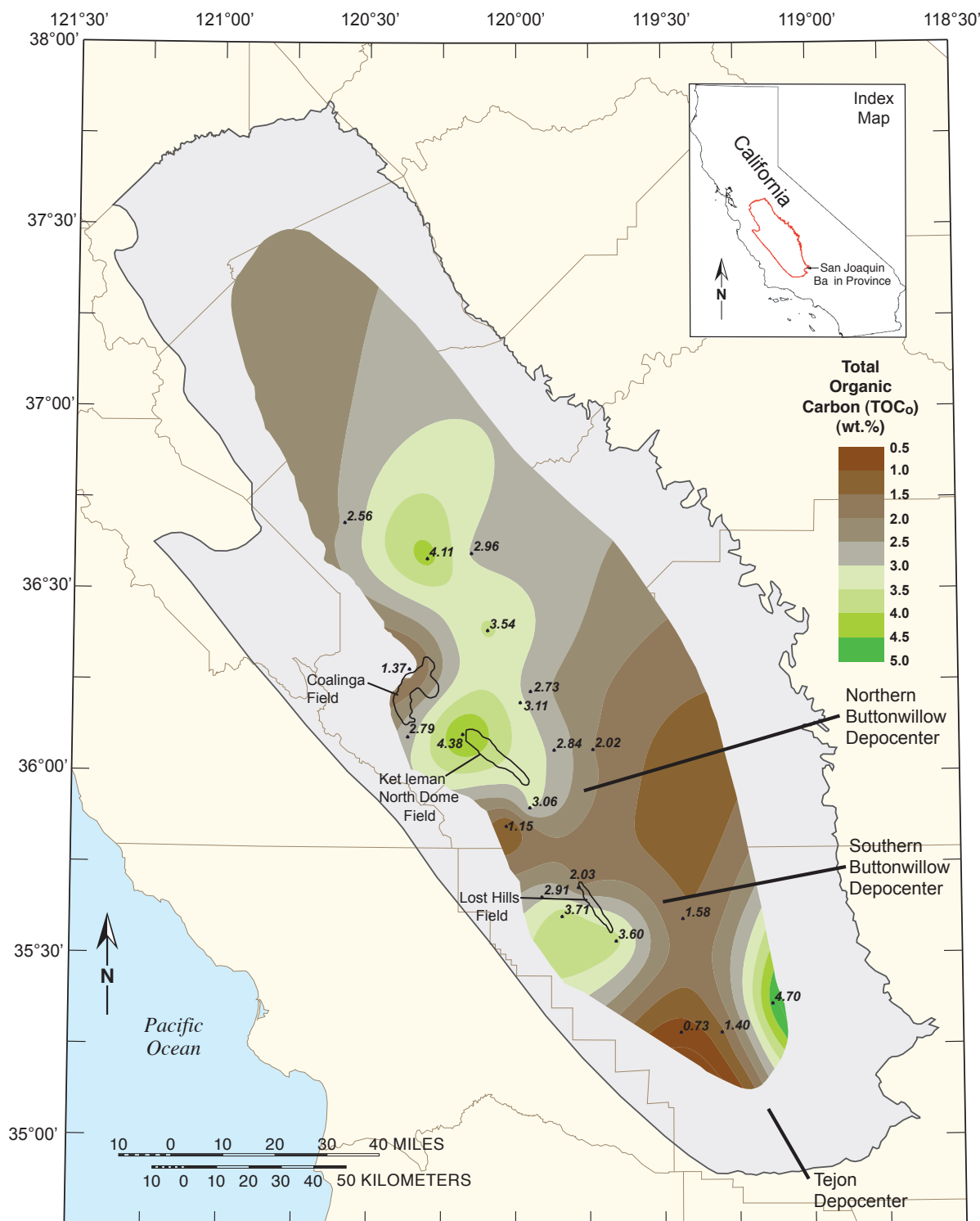


Figure 11.12. Original total organic carbon (TOC₀) map for the Kreyenhagen Formation source rock in the San Joaquin Basin Province (gray outline) is based on average TOC₀ from 21 wells (filled circles; 210 samples, table 11.5). For samples showing high thermal maturity (T_{max} > 440°C), total organic carbon (TOC) was corrected to TOC₀ to compensate for the effects of thermal maturation due to burial using the method of Peters and others (2005). Less mature samples required no correction (TOC = TOC₀). Numbers adjacent to well locations indicate average original total organic carbon content (weight percent).

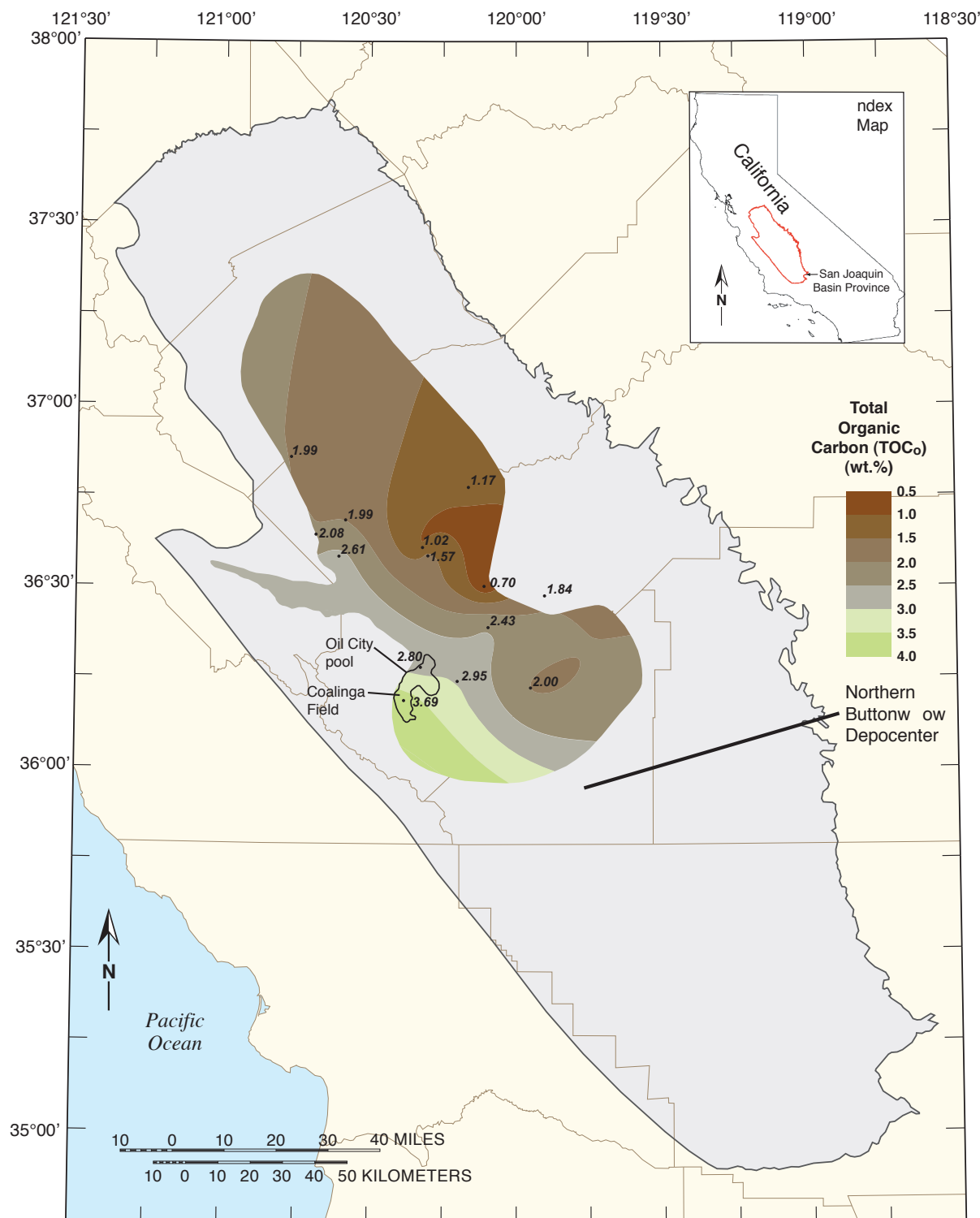


Figure 11.13. Original total organic carbon (TOC_o) map for the Moreno Formation source rock in the San Joaquin Basin Province (gray outline) is based on average TOC_o from 14 wells (solid circles; 326 samples, table 11.5). The most favorable TOC_o values (>2.0 weight percent) for the Moreno Formation source rock occur in the southernmost portion of its range (to the south and southeast of Coalinga field). For samples showing high thermal maturity (T_{max} >440°C), total organic carbon (TOC) was corrected to TOC_o to compensate for the effects of thermal maturation due to burial using the method of Peters and others (2005). Less mature samples required no correction (TOC = TOC_o). Numbers adjacent to well locations indicate average original total organic carbon content (weight percent).

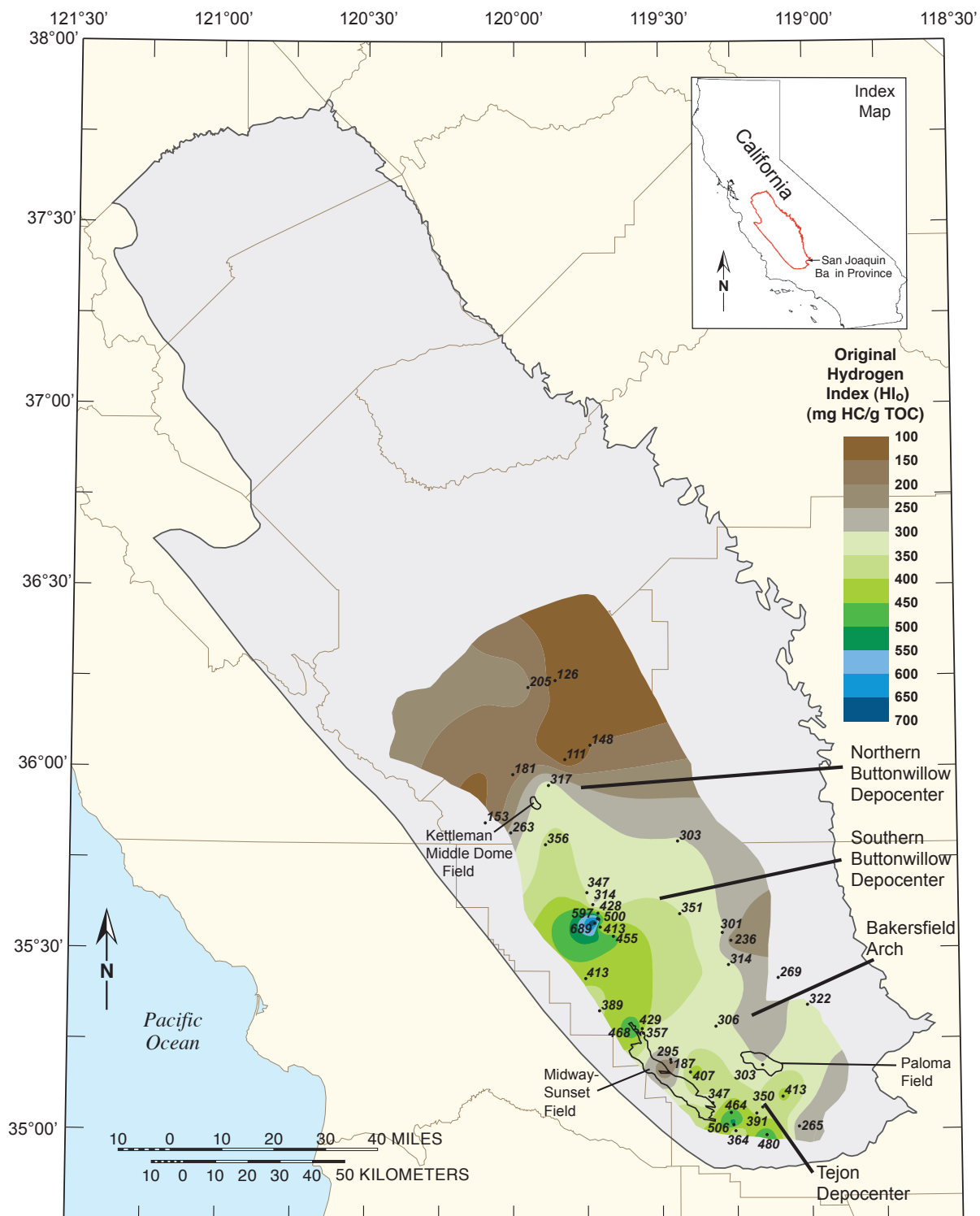


Figure 11.14. Original hydrogen index (HI_o) map for the Antelope shale source rock in the San Joaquin Basin Province (gray outline) is based on average Rock-Eval pyrolysis hydrogen index from 43 wells (filled circles; 944 samples, table 11.5). For samples showing high thermal maturity (T_{max} > 440°C), hydrogen index (HI) was corrected to HI_o to compensate for the effects of thermal maturation due to burial using the method of Peters and others (2005). Less mature samples required no correction (HI = HI_o). Numbers adjacent to well locations indicate average original hydrogen index (milligrams of hydrocarbon/gram total organic carbon).

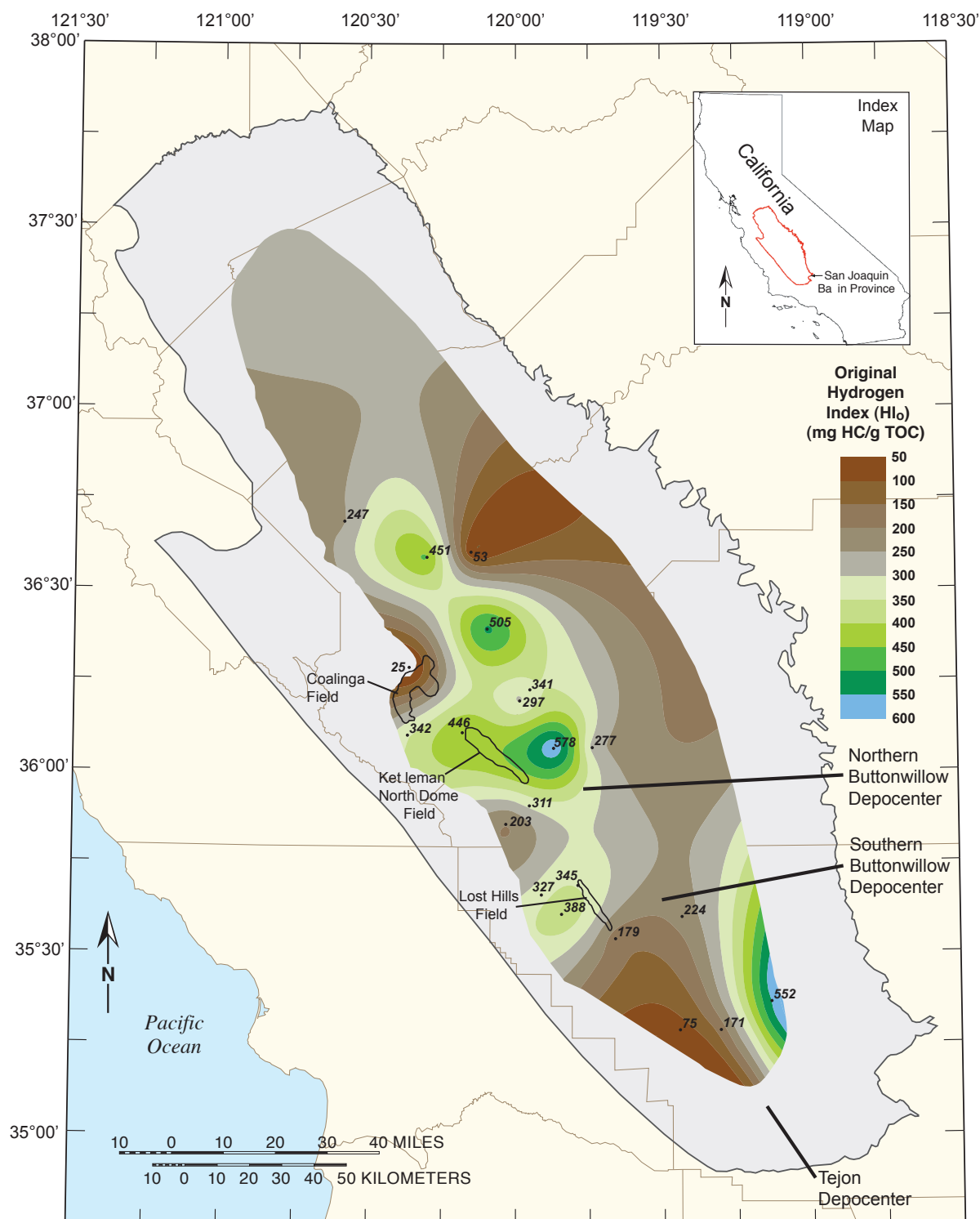


Figure 11.15. Original hydrogen index (HI₀) map for the Kreyenhagen Formation source rock in the San Joaquin Basin Province (gray outline) is based on average Rock-Eval pyrolysis HI from 21 wells (filled circles; 210 samples, table 11.5). For samples showing high thermal maturity (T_{max} >440°C), hydrogen index (HI) was corrected to HI₀ to compensate for the effects of thermal maturation due to burial using the method of Peters and others (2005). Less mature samples required no correction (HI = HI₀). Numbers adjacent to well locations indicate average original hydrogen index (milligrams of hydrocarbon/gram total organic carbon).

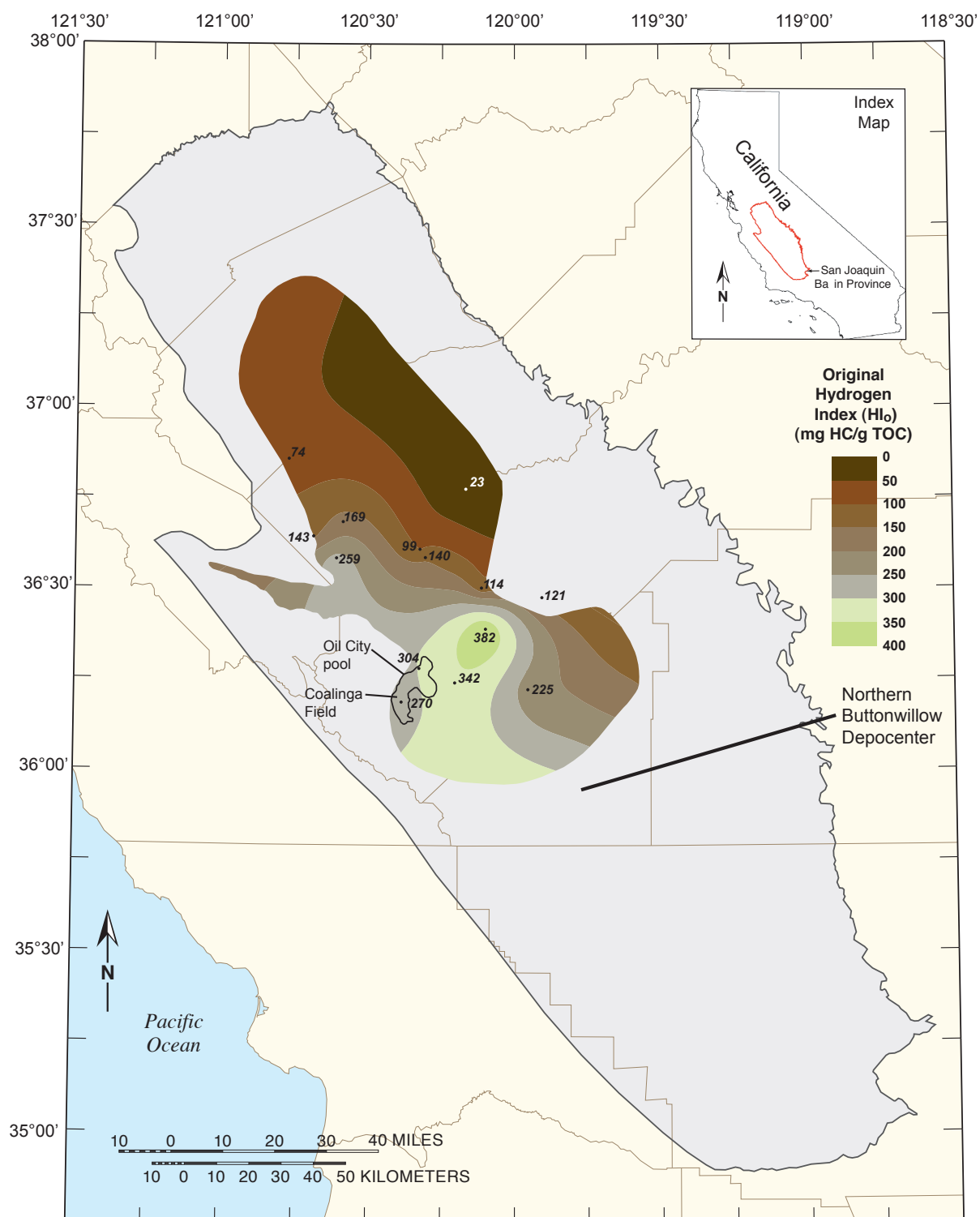


Figure 11.16. Original hydrogen index (HI₀) map for the Moreno Format on source rock in the San Joaquin Basin Province (gray outline) is based on average Rock-Eval pyrolysis HI from 14 wells (filled circles; 326 samples, table 11.5). For samples showing high thermal maturity (T_{max} > 440°C), hydrogen index (HI) was corrected to HI₀ to compensate for the effects of thermal maturation due to burial using the method of Peters and others (2005). Less mature samples required no correction (HI = HI₀). Numbers adjacent to well locations indicate average original hydrogen index (milligrams of hydrocarbon/gram total organic carbon).

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Tables

Table 11.1. Burial depth and thickness data for Antelope shale source rock.

[Map number corresponds to numbered wells in figure 11.2. No., number; API, American Petroleum Institute; Bot., bottom; ft, feet]

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Thickness, ft
103	X-55-30R	04029272050000	-119.54494	35.29314	6080	8390	2310
105	343-4G	04029290670000	-119.40344	35.26398	6380	9100	2720
106	KCL 20-13	04029032760000	-119.32168	35.25995	8810	12050	3240
107	KCL A-44-14	04029043100000	-119.25977	35.31786	7830	10730	2900
108	KCL 12	04029042400000	-119.16362	35.35217	6780	9600	2820
109	KCL G-1	04029309240000	-119.13950	35.36286	5800	5800	0
110	KCL B-45	04029069490000	-119.06547	35.38770	4500	4500	0
111	KCL 15	04029084380000	-119.05303	35.41471	3550	3550	0
112	33	04029309730000	-119.03233	35.43705	2750	2750	0
113	Bald Eagle 74	04029241120000	-118.99635	35.46350	1650	1650	0
114	Fuhrman 1	04029263800000	-118.96068	35.46262	1050	1050	0
116	85-25D	04019029130000	-120.40200	36.15530	1050	1100	50
117	302-19C	04019033130000	-120.38900	36.17730	1450	1580	130
118	Magnet Fee 1	04019003880000	-120.37800	36.18470	2180	2800	620
119	Pleasant Valley 1	04019034380000	-120.32793	36.16621	4580	5180	600
120	Guijarral Service 65-30F	04019043920000	-120.26900	36.15810	5690	6620	930
121	Spieler 1	04019048360000	-120.19300	36.15300	6660	7700	1040
122	BLC 48-7	04031006050000	-119.95000	36.19780	8400	9690	1290
123	Ormond 1	04019062440000	-119.79000	36.42990	4970	5000	30
127	363X	04019007020000	-120.32400	36.27850	350	350	0
128	213	04019025910000	-120.31400	36.22530	2200	2200	0
129	Leavitt-Hintz 1	04019043890000	-120.29200	36.19600	3750	4350	600
130	62	04019045050000	-120.28900	36.19210	4000	4600	600
131	68	04019046260000	-120.26900	36.18130	4450	5400	950
132	84	04019053740000	-120.24672	36.17455	4950	5820	870
133	PVF 82	04019053720000	-120.24600	36.16350	5100	5950	850
134	69-28F	04019053770000	-120.23309	36.15324	5730	6760	1030
135	Dessel 41-2-19	04019048130000	-120.20940	36.13650	6200	7200	1000
136	Bourdieu 1A	04019047330000	-120.19800	36.12960	6300	7300	1000
137	ORR 43	04019046690000	-120.19100	36.11870	6570	7650	1080
138	KNDA 4-18J	04019057250000	-120.18001	36.10270	6500	7800	1300
139	423	04019059590000	-120.12100	36.05580	5050	6400	1350
140	KNDA E-27	04031004090000	-120.07100	36.02470	4600	6030	1430
141	KNDA 1-1-U	04031005690000	-119.98400	35.96330	4700	7070	2370
142	38-19V	04031002310000	-119.96096	35.90650	5080	7420	2340
143	SF & FL 68	04031002410000	-119.92000	35.86310	5020	8350	3330
144	SF & FL 4-2	04029036450000	-119.87300	35.76820	3120	5700	2580
145	Williamson 33	04029175400000	-119.78958	35.68265	1700	3750	2050
146	Cahn 58	04029039560000	-119.71851	35.60593	2670	3950	1280
147	55	04029350570000	-119.79265	35.54558	2400	3850	1450
148	62W (62M-33)	04029696730000	-119.71200	35.45280	4250	5600	1350
150	Belgian Anticline area	04029257850000	-119.65551	35.29365	40	3700	3660
151	Vedder USL 1	04029137350000	-119.60794	35.25065	40	5000	4960
154	552	04029019110000	-119.48680	35.20566	3800	8000	4200
155	CWOD 58	04029294940000	-119.50462	35.12358	170	3800	3630
157	Ethel D S-1	04029384970000	-119.39784	35.08162	1050	5170	4120
160	S.O. Griffin et al 67	04019202580000	-120.30800	36.44550	5650	5650	0
161	Port Costa 48-30	04019062200000	-120.27400	36.41540	5920	5920	0

Table 11.1. Burial depth and thickness data for Antelope shale source rock.—Continued

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Thickness, ft
162	Puckhaber et al 1	04019062660000	-120.24500	36.39740	6000	6000	0
163	S.P.L. 1	04019062690000	-120.22700	36.36290	6400	6400	0
164	S.P.L. 1 (S. Pacific R.)	04019062670000	-120.18300	36.33390	6250	6250	0
165	Indian Westates 25	04019062890000	-120.15400	36.29120	7050	7310	260
166	Rhein 1	04019062860000	-120.07700	36.26190	7700	8020	320
167	BLC 44-14	04019063130000	-119.98600	36.18990	8120	8950	830
168	Stone 141	04031006160000	-119.96900	36.10700	9210	9990	780
169	Davis-Trans Dev Co 1	04031200690000	-119.92400	36.03400	9740	10470	730
170	Howe 1	04031002740000	-119.88000	35.95070	11030	11720	690
171	Bravo B-1	04031203000000	-119.82400	35.90550	13350	13980	630
172	National Royalties 1	04029258260000	-119.63000	35.70080	11550	12280	730
173	Tenneco 31X-22E (31X-10)	04029473610000	-119.59200	35.59990	13050	13760	710
174	KCL 54-6 (27-6)	04029031730000	-119.52646	35.51989	12310	13300	990
175	Mobil-Gulf-Tupman 1-10	04029473800000	-119.48806	35.50336	12160	13300	1140
176	Salisbury 1 (CA Lands In)	04029391580000	-119.42987	35.42599	11150	12930	1780
177	Root 1	04029011770000	-119.39876	35.42249	10920	13120	2200
178	Tenneco 1 (West 31-5)	04029696700000	-119.33610	35.36566	9730	11780	2050
179	CLA 67-29	04029013650000	-119.30998	35.28479	7480	10750	3270
180	Elk Vista 1	04029501700000	-119.25570	35.19802	10180	13760	3580
184	Texaco San Emidio 1	04029475000000	-119.19065	35.04646	11100	14000	2900
209	Lawton 58-26	04019056280000	-119.87600	36.41740	5420	5590	170
210	Grangeville Comm 1	04031005810000	-119.79000	36.33810	5500	5920	420
211	Richardson 36-4	04031006320000	-119.70900	36.12790	6980	8690	1710
212	von Glahn 1	04031007390000	-119.60700	35.95800	8080	9660	1580
213	Daniel 35	04107000840000	-119.47545	35.82529	7450	9000	1550
214	Morris 1	04107001120000	-119.44468	35.79602	7320	8790	1470
215	Dearinger 46-23	04029229990000	-119.35720	35.73708	6800	8000	1200
216	Meyer 1 & MushRush 5	04029094870000	-119.42729	35.59241	9500	11050	1550
217	Russell 73	04029307550000	-119.29827	35.49570	8700	10150	1450
218	Pacific States 21	04029166320000	-119.28693	35.44935	8400	9810	1410
219	KCL 11-44	04029086320000	-119.22027	35.40076	7480	9780	2300
220	Posuncula 1	04029185650000	-119.23563	35.33818	7800	10550	2750
221	KCL A-53	04029002750000	-119.22323	35.29157	7390	10560	3170
223	KCL A-72	04029217310000	-119.18373	35.17755	9700	13810	4110

Table 11.2. Burial depth and thickness data for Tumey formation source rock.

[Map number corresponds to numbered wells in figure 11.2. No., number; API, American Petroleum Institute; Bot., bottom; ft, feet]

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Thickness, ft
101	Forbes-1	04029294190000	-119.71834	35.30388	2220	2220	0
108	KCL 12	04029042400000	-119.16362	35.35217	1235	2460	1225
110	KCL B-45	04029069490000	-119.06547	35.38770	10000	10000	0
111	KCL 15	04029084380000	-119.05303	35.41471	7600	7600	0
112	33	04029309730000	-119.03233	35.43705	6900	6900	0
113	Bald Eagle 74	04029241120000	-118.99635	35.46350	5620	5620	0
114	Fuhrman 1	04029263800000	-118.96068	35.46262	4550	4550	0
117	302-19C	04019033130000	-120.38900	36.17730	2050	2050	0
118	Magnet Fee 1	04019003880000	-120.37800	36.18470	3400	3440	40
119	Pleasant Valley 1	04019034380000	-120.32793	36.16621	6520	7080	560
120	Guijarral Service 65-30F	04019043920000	-120.26900	36.15810	7900	8400	500
121	Spieler 1	04019048360000	-120.19300	36.15300	9500	10020	520
122	BLC 48-7	04031006050000	-119.95000	36.19780	12200	12400	200
123	Ormond 1	04019062440000	-119.79000	36.42990	7250	7280	30
127	363X	04019007020000	-120.32400	36.27850	1000	1000	0
128	213	04019025910000	-120.31400	36.22530	3050	3050	0
129	Leavitt-Hintz 1	04019043890000	-120.29200	36.19600	5300	5300	0
130	62	04019045050000	-120.28900	36.19210	5500	5500	0
131	68	04019046260000	-120.26900	36.18130	6300	6300	0
132	84	04019053740000	-120.24672	36.17455	7200	7320	120
133	PVF 82	04019053720000	-120.24600	36.16350	7650	7750	100
134	69-28F	04019053770000	-120.23309	36.15324	8290	8520	230
135	Dessel 41-2-19	04019048130000	-120.20940	36.13650	8980	9180	200
136	Bourdieu 1A	04019047330000	-120.19800	36.12960	9320	9500	180
137	ORR 43	04019046690000	-120.19100	36.11870	9680	9850	170
138	KNDA 4-18J	04019057250000	-120.18001	36.10270	9860	9950	90
139	423	04019059590000	-120.12100	36.05580	8910	9000	90
140	KNDA E-27	04031004090000	-120.07100	36.02470	8750	8850	100
141	KNDA 1-1-U	04031005690000	-119.98400	35.96330	10150	10300	150
142	38-19V	04031002310000	-119.96096	35.90650	11020	11180	160
144	SF & FL 4-2	04029036450000	-119.87300	35.76820	9950	10500	550
145	Williamson 33	04029175400000	-119.78958	35.68265	7600	8550	950
146	Cahn 58	04029039560000	-119.71851	35.60593	9500	9900	400
147	55	04029350570000	-119.79265	35.54558	8550	9050	500
149	Cymric Unit 1	04029393760000	-119.70900	35.38400	4350	4510	160
150	Belgian Anticline area	04029257850000	-119.65551	35.29365	4900	4950	50
160	S.O. Griffin et al 67	04019202580000	-120.30800	36.44550	7900	8150	250
161	Port Costa 48-30	04019062200000	-120.27400	36.41540	8100	8400	300
162	Puckhaber et al 1	04019062660000	-120.24500	36.39740	8450	8750	300
163	S.P.L. 1	04019062690000	-120.22700	36.36290	9150	9380	230
164	S.P.L. 1 (S. Pacific R.)	04019062670000	-120.18300	36.33390	9950	10250	300
165	Indian Westates 25	04019062890000	-120.15400	36.29120	10800	11180	380
166	Rhein 1	04019062860000	-120.07700	36.26190	11520	11680	160
167	BLC 44-14	04019063130000	-119.98600	36.18990	12360	12520	160
168	Stone 141	04031006160000	-119.96900	36.10700	13480	13700	220
169	Davis-Trans Dev Co 1	04031200690000	-119.92400	36.03400	14250	14460	210
171	Bravo B-1	04031203000000	-119.82400	35.90550	18000	18200	200
173	Tenneco 31X-22E(31X-10)	04029473610000	-119.59200	35.59990	19600	19800	200

Table 11.2. Burial depth and thickness data for Tumey formation source rock.—Continued

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Thickness, ft
175	Mobil-Gulf-Tupman 1-10	04029473800000	-119.48806	35.50336	18870	19150	280
179	CLA 67-29	04029013650000	-119.30998	35.28479	15180	15500	320
195	Turlock Lands 37-18	04047000120000	-120.80700	37.40690	3450	3450	0
196	SAU Howard 1	04047000260000	-120.80900	37.26510	3800	3990	190
197	Potter 1	04047000400000	-120.56800	37.14610	3120	3300	180
198	Southern Realty 1-6	04039000250000	-120.48700	37.08730	2750	2900	150
199	Chowchilla Farms 74-9	04039001240000	-120.44000	36.98960	3300	3400	100
200	Chowchilla 27-26	04039001260000	-120.41400	36.94080	3650	3710	60
201	Moffat 55-7	04039000610000	-120.37000	36.90200	3650	3800	150
202	Gill 1	04039001500000	-120.32200	36.85510	3800	4000	200
203	Gill 38-16	04039000460000	-120.23400	36.79400	4290	4290	0
204	MID 53-12	04019060440000	-120.17600	36.73050	4950	5060	110
205	STU 1-28	04019060540000	-120.13000	36.69090	5550	5680	130
206	STU F-22-14	04019055740000	-120.09000	36.62800	5950	6030	80
207	Clover 31-14	04019049140000	-120.10900	36.50140	7550	7600	50
208	Sample F 32-15	04019049360000	-120.00100	36.45340	7700	7800	100
209	Lawton 58-26	04019056280000	-119.87600	36.41740	7720	7750	30
210	Grangeville Comm 1	04031005810000	-119.79000	36.33810	8300	8400	100
211	Richardson 36-4	04031006320000	-119.70900	36.12790	10800	10970	170
212	von Glahn 1	04031007390000	-119.60700	35.95800	12030	12200	170
213	Daniel 35	04107000840000	-119.47545	35.82529	11400	11460	60
214	Morris 1	04107001120000	-119.44468	35.79602	11120	11180	60
215	Dearinger 46-23	04029229990000	-119.35720	35.73708	10500	10540	40
216	Meyer 1 & MushRush 5	04029094870000	-119.42729	35.59241	14300	14480	180
217	Russell 73	04029307550000	-119.29827	35.49570	13210	13500	290
218	Pacific States 21	04029166320000	-119.28693	35.44935	12750	12980	230
219	KCL 11-44	04029086320000	-119.22027	35.40076	12410	12600	190
220	Posuncula 1	04029185650000	-119.23563	35.33818	13700	13810	110
225	423-34J	04019059590000	-120.12100	36.05580	8650	8750	100
226	341-11P	04031203180000	-120.09300	36.03420	8430	8530	100
227	27-Q	04031004090000	-120.07100	36.02470	8480	8580	100

Table 11.3. Burial depth and thickness data for Kreyenhagen Formation source rock.

[Map number corresponds to numbered wells in figure 11.2. No., number; API, American Petroleum Institute; Bot., bottom; ft, feet]

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Thickness, ft
101	Forbes-1	04029294190000	-119.71834	35.30388	2220	2220	0
110	KCL B-45	04029069490000	-119.06547	35.38770	10000	10000	0
111	KCL 15	04029084380000	-119.05303	35.41471	7600	7600	0
112	33	04029309730000	-119.03233	35.43705	6900	6900	0
113	Bald Eagle 74	04029241120000	-118.99635	35.46350	5620	5620	0
114	Fuhrman 1	04029263800000	-118.96068	35.46262	4550	4550	0
117	302-19C	04019033130000	-120.38900	36.17730	2050	3460	1410
118	Magnet Fee 1	04019003880000	-120.37800	36.18470	3440	4600	1160
119	Pleasant Valley 1	04019034380000	-120.32793	36.16621	7080	7690	610
120	Guijarral Service 65-30F	04019043920000	-120.26900	36.15810	8400	9050	650
121	Spieler 1	04019048360000	-120.19300	36.15300	10020	10500	480
122	BLC 48-7	04031006050000	-119.95000	36.19780	12400	12820	420
123	Ormond 1	04019062440000	-119.79000	36.42990	7280	7520	240
127	363X	04019007020000	-120.32400	36.27850	1000	1950	950
128	213	04019025910000	-120.31400	36.22530	3050	3950	900
129	Leavitt-Hintz 1	04019043890000	-120.29200	36.19600	5300	6300	1000
130	62	04019045050000	-120.28900	36.19210	5500	6650	1150
131	68	04019046260000	-120.26900	36.18130	6300	7400	1100
132	84	04019053740000	-120.24672	36.17455	7320	8380	1060
133	PVF 82	04019053720000	-120.24600	36.16350	7750	8520	770
134	69-28F	04019053770000	-120.23309	36.15324	8520	9400	880
135	Dessel 41-2-19	04019048130000	-120.20940	36.13650	9180	10020	840
136	Bourdieu 1A	04019047330000	-120.19800	36.12960	9500	10300	800
137	ORR 43	04019046690000	-120.19100	36.11870	9850	10600	750
138	KNDA 4-18J	04019057250000	-120.18001	36.10270	9950	10600	650
139	423	04019059590000	-120.12100	36.05580	9000	9650	650
140	KNDA E-27	04031004090000	-120.07100	36.02470	8850	9420	570
141	KNDA 1-1-U	04031005690000	-119.98400	35.96330	10300	10750	450
142	38-19V	04031002310000	-119.96096	35.90650	11180	12250	1070
144	SF & FL 4-2	04029036450000	-119.87300	35.76820	10500	12350	1850
145	Williamson 33	04029175400000	-119.78958	35.68265	8550	10800	2250
160	S.O. Griffin et al 67	04019202580000	-120.30800	36.44550	8150	8720	570
161	Port Costa 48-30	04019062200000	-120.27400	36.41540	8400	8780	380
162	Puckhaber et al 1	04019062660000	-120.24500	36.39740	8750	9110	360
163	S.P.L. 1	04019062690000	-120.22700	36.36290	9380	9850	470
164	S.P.L. 1 (S. Pacific R.)	04019062670000	-120.18300	36.33390	10250	10700	450
165	Indian Westates 25	04019062890000	-120.15400	36.29120	11180	11600	420
166	Rhein 1	04019062860000	-120.07700	36.26190	11680	12150	470
167	BLC 44-14	04019063130000	-119.98600	36.18990	12520	13120	600
168	Stone 141	04031006160000	-119.96900	36.10700	13700	14320	620
169	Davis-Trans Dev Co 1	04031200690000	-119.92400	36.03400	14460	15050	590
171	Bravo B-1	04031203000000	-119.82400	35.90550	18200	18780	580
173	Tenneco 31X-22E (31X-10)	04029473610000	-119.59200	35.59990	19800	20480	680
175	Mobil-Gulf-Tupman 1-10	04029473800000	-119.48806	35.50336	19150	19780	630
179	CLA 67-29	04029013650000	-119.30998	35.28479	15620	16830	1210
195	Turlock Lands 37-18	04047000120000	-120.80700	37.40690	3450	3600	150
196	SAU Howard 1	04047000260000	-120.80900	37.26510	3990	4150	160
197	Potter 1	04047000400000	-120.56800	37.14610	3300	3500	200

Table 11.3. Burial depth and thickness data for Kreyenhagen Formation source rock.—Continued

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Thickness, ft
198	Southern Realty 1-6	04039000250000	-120.48700	37.08730	2900	3080	180
199	Chowchilla Farms 74-9	04039001240000	-120.44000	36.98960	3400	3610	210
200	Chowchilla 27-26	04039001260000	-120.41400	36.94080	3710	4000	290
201	Moffat 55-7	04039000610000	-120.37000	36.90200	3800	3950	150
202	Gill 1	04039001500000	-120.32200	36.85510	4000	4200	200
203	Gill 38-16	04039000460000	-120.23400	36.79400	4290	4400	110
204	MID 53-12	04019060440000	-120.17600	36.73050	5060	5280	220
205	STU 1-28	04019060540000	-120.13000	36.69090	5680	5900	220
206	STU F-22-14	04019055740000	-120.09000	36.62800	6030	6280	250
207	Clover 31-14	04019049140000	-120.10900	36.50140	7600	7900	300
208	Sample F 32-15	04019049360000	-120.00100	36.45340	7800	8100	300
209	Lawton 58-26	04019056280000	-119.87600	36.41740	7750	8050	300
210	Grangeville Comm 1	04031005810000	-119.79000	36.33810	8400	8650	250
211	Richardson 36-4	04031006320000	-119.70900	36.12790	10970	11250	280
212	von Glahn 1	04031007390000	-119.60700	35.95800	12200	12950	750
213	Daniel 35	04107000840000	-119.47545	35.82529	11460	11600	140
214	Morris 1	04107001120000	-119.44468	35.79602	11180	11420	240
215	Dearinger 46-23	04029229990000	-119.35720	35.73708	10540	10800	260
216	Meyer 1 & MushRush 5	04029094870000	-119.42729	35.59241	14480	15150	670
217	Russell 73	04029307550000	-119.29827	35.49570	13500	14200	700
218	Pacific States 21	04029166320000	-119.28693	35.44935	12980	13620	640
219	KCL 11-44	04029086320000	-119.22027	35.40076	12600	13410	810
220	Posuncula 1	04029185650000	-119.23563	35.33818	13810	14200	390

Table 11.4. Burial depth and thickness data for Moreno Formation source rock.

[Map number corresponds to numbered wells in figure 11.2. No., number; API, American Petroleum Institute; Bot., bottom; ft, feet]

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Thickness, ft
117	302-19C	04019033130000	-120.38900	36.17730	3520	3830	310
119	Pleasant Valley 1	04019034380000	-120.32793	36.16621	8300	8900	600
122	BLC 48-7	04031006050000	-119.95000	36.19780	13280	13800	520
123	Ormond 1	04019062440000	-119.79000	36.42990	7800	7800	0
127	363X	04019007020000	-120.32400	36.27850	3250	3850	600
128	213	04019025910000	-120.31400	36.22530	4700	5450	750
129	Leavitt-Hintz 1	04019043890000	-120.29200	36.19600	7150	7750	600
134	69-28F	04019053770000	-120.23309	36.15324	10800	11500	700
139	423	04019059590000	-120.12100	36.05580	11650	12670	1020
160	S.O. Griffin et al 67	040190202580000	-120.30800	36.44550	10870	11720	850
167	BLC 44-14	04019063130000	-119.98600	36.18990	14100	14650	550
187	McDonald Is 1 (2)	04077000920000	-121.47923	37.98821	6900	7400	500
188	Lawrence-Stephian 1	04077000610000	-121.33630	37.86902	3280	4050	770
189	FDL 1	04077002380000	-121.39800	37.75524	3450	3450	0
190	Marti 73-25	04077003470000	-121.36363	37.73531	3450	3500	50
191	Wright 1	04077003650000	-121.32812	37.71496	3680	3800	120
192	Overton 34-16	04099000200000	-121.20827	37.67498	4250	4580	330
193	Young Comm 1	04099000260000	-121.07400	37.62470	3950	4250	300
195	Turlock Lands 37-18	04047000120000	-120.80700	37.40690	5400	5400	0
196	SAU Howard 1	04047000260000	-120.80900	37.26510	6210	6990	780
197	Potter 1	04047000400000	-120.56800	37.14610	5150	5450	300
198	Southern Realty 1-6	04039000250000	-120.48700	37.08730	3910	4400	490
199	Chowchilla F. 74-9	04039001240000	-120.44000	36.98960	4760	5060	300
200	Chowchilla 27-26	04039001260000	-120.41400	36.94080	5080	5400	320
201	Moffat 55-7	04039000610000	-120.37000	36.90200	4900	5150	250
202	Gill 1	04039001500000	-120.32200	36.85510	4850	4980	130
203	Gill 38-16	04039000460000	-120.23400	36.79400	5100	5210	110
205	STU 1-28	04019060540000	-120.13000	36.69090	6200	6300	100
206	STU F-22-14	04019055740000	-120.09000	36.62800	6350	6380	30
207	Clover 31-14	04019049140000	-120.10900	36.50140	8000	8040	40
208	Sample F 32-15	04019049360000	-120.00100	36.45340	8300	8300	0
209	Lawton 58-26	04019056280000	-119.87600	36.41740	8180	8180	0
210	Grangeville Comm 1	04031005810000	-119.79000	36.33810	8700	8890	190
211	Richardson 36-4	04031006320000	-119.70900	36.12790	11550	11700	150

Table 11.5. Averaged Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from San Joaquin Basin source rocks.

[The data in this table were selected from a larger collection of published data (table 11.7) and represent Rock-Eval pyrolysis/total organic carbon data for samples whose depths correspond to intervals of source rocks based on PS-AAPG cross sections (1957a,b; 1958a,b; 1959; 1989). Map number corresponds to numbered wells in figure 11.3. No., number; API, American Petroleum Institute; Bot., bottom; Spl., sample type: cc, cuttings; co, core; swc, sidewall core. n, number of samples within source-rock interval in each well; TOC_o, original total organic carbon (weight percent); Std. Dev., standard deviation; Tmax, Rock-Eval pyrolysis oven temperature in degrees Centigrade at maximum pyrolytic yield, S2; HI_o, original hydrogen index or 100*S2/TOC. Abbreviated identity of data source: Ka, Kaplan and others (1988); W, Weber (1983); Kr, Kruege (1983); G/W, Graham and Williams (1985); An, anonymous; Ja, Jarvie and others (1995); CWSR, California Well Sample Repository, California State University at Bakersfield (<http://www.wellsample.com>); Gr, Gruenfelder (1987); Lu, Lu and Kaplan (1987); Mi, Milam (1985); Mc, McGuire (1988)]

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Spl.	n	TOC _o (wt.%)	Std. Dev.	Tmax (°C)	HI _o , mg (HC/g TOC)	Std. Dev.	Data Source
Antelope shale														
4	Furtado 55-36	04019062350000	-119 85807	36 23955	7900	7991	co	2	2 27	0 21	416	126	50	Ka
9	Van Sicklen 45	04029036550100	-119 66325	35 53545	8388	9670	cc	4	4 57	1 90	427	455	119	W
10	Mobil (GP) 2-110	04029176880000	-119 75150	35 65538	2400	3000	co	1	4 19	0 00	397	347	0	Kr
12	Arco KCLD-26-29	04029207940000	-119 04277	35 00983	2792	4987	co	3	4 78	1 89	412	265	71	Ka
13	Univ Consolidated 44	04029214630000	-119 73196	35 62241	2540	4156	co	3	5 64	2 27	398	314	140	Kr
20	Monte Christo 163	04029625120000	-119 71218	35 58257	4835	5689	co	8	4 36	2 00	412	500	67	Kr
21	Gulf 142 (4-16)	04029628170000	-119 71640	35 58427	5409	6031	co	2	5 24	3 73	417	597	129	Kr
22	Getty 9D-523	04029645000000	-119 40683	35 16054	3760	4600	co	8	3 55	0 79	411	407	49	G/W
23	Chevron 9-3X	04029646420000	-119 71512	35 59923	3662	4857	co	4	4 29	2 25	414	428	136	Kr
24	Arco 801	04029651490000	-119 70753	35 56033	6570	7425	co	2	2 56	0 39	426	413	156	Kr
25	Arco 901	04029651590000	-119 72554	35 57124	7095	7095	co	2	1 86	0 27	423	689	111	Kr
28	Chevron 678X	04031202390000	-119 82556	36 02180	11300	11440	cc	3	0 71	0 14	426	111	36	Ka
29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	9240	9510	cc	2	1 95	0 13	423	148	112	Ka
31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7560	9202	cc	45	3 16	2 53	416	303	117	G/W
35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12420	14550	cc	20	1 49	0 61	445*	187	56	An
44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5263	6709	co	20	2 11	1 27	424	181	101	Ka
45	Midway Sunset 801	04029833080000	-119 58421	35 27017	2700	7670	cc	166	3 46	1 25	416	468	109	Ja
55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	6603	8943	co	18	2 62	1 68	419	269	105	CWSR
56	Sheep Springs 1	04029198950000	-119 71045	35 33025	7600	10420	cc	40	2 72	0 49	431	389	59	CWSR
57	Union Avenue 1	04029206940000	-119 01176	35 34403	7356	9484	cc	21	2 68	1 76	421	322	147	CWSR
59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6170	7340	cc	18	2 55	1 05	421	356	57	CWSR
61	Richardson 46	04029394660000	-119 75656	35 41906	4700	8503	co	7	2 78	1 45	425	413	45	CWSR
63	Tenneco 73-12	04029464520000	-119 43928	35 59627	9820	11830	cc	24	3 13	1 45	425	351	81	CWSR
65	Howe 1-2	04031002740000	-119 88098	35 95074	11310	12600	cc	22	1 97	0 69	427	317	88	CWSR
66	Malley 1	04031007730000	-120 00877	35 82034	5083	6281	co	15	2 22	0 57	420	263	108	CWSR
67	Haven 44X-6	04031200850000	-119 95057	36 22078	8300	8930	cc	11	1 92	0 48	422	205	106	CWSR
68	Geyer 1	04031201710000	-120 09526	35 84787	2360	3080	cc	12	1 70	0 33	411	153	63	CWSR
74	Shafter C-1	04029724650000	-119 29611	35 54405	8100	8760	co	7	3 49	1 91	421	301	122	Gr
75	Shafter B-1	04029679810000	-119 26759	35 52228	7555	8245	co	8	3 30	0 96	414	236	65	Gr
76	Kernco 11-34	04029649560000	-119 27669	35 45534	7570	9850	co	20	2 55	1 07	414	314	119	Gr
77	N Coles Levee 26-29	04029606500000	-119 32004	35 28647	10500	11900	co	15	3 06	1 23	432	306	75	Gr
78	Paloma 81X-3	04029749810000	-119 16403	35 17935	10800	11160	co	4	2 39	2 38	429	303	215	Gr
79	Santiago A 72-30	04029623400000	-119 26237	35 01537	1600	2700	co	11	3 37	0 80	408	506	125	Gr
80	Pioneer 1	04029361530000	-119 25645	34 99837	1080	2360	co	13	3 87	1 22	412	364	38	Gr
81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	9300	11000	co	18	2 70	0 86	424	464	62	Gr
82	Texaco 21X-13	04029497230000	-119 18495	35 04625	13500	14100	co	7	2 67	0 94	427	391	167	Gr
83	Channel 38X-6	04029760610000	-119 16510	35 06332	11265	12465	co	13	2 44	0 92	427	350	98	Gr
84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	15080	16320	co	9	1 60	0 39	428	413	55	Gr
85	Gen American 81-4K	04029076510000	-119 33165	35 07536	5460	6900	co	16	2 74	0 61	420	347	79	Gr
88	Bear Valley 1	04029871460000	-119 56737	35 28079	4200	6930	cc	79	1 86	1 27	415	429	131	Ja
89	Fairfield Fee D48-38	04029750780000	-119 56285	35 26828	3210	6100	cc	68	2 33	0 88	415	357	134	Ja
90	White Wolf 205-5	04029891530000	-119 15196	34 98685	1030	6225	cc	75	4 18	0 88	404	480	47	Ja
91	653Z-26B	04030054520000	-119 47267	35 19515	3955	4907	co	98	2 24	0 92	414	295	107	Ja

Table 11.5. Averaged Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from San Joaquin Basin source rocks—Continued.

Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Spl.	n	TOC _o (wt.%)	Std. Dev.	Tmax (C)	HI _o , mg (HC/g TOC)	Std. Dev.	Data Source
Tumey formation														
1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9518	9691	co	5	1 56	0 64	428	180	78	Ka
6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12380	12590	cc	7	1 96	0 72	427	134	100	Ka
33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	17350	17600	cc	5	1 50	0 23	439	281	10	An
60	Beer 5	04029375810000	-119 91242	35 65666	3462	4413	cc	4	3 23	0 72	410	217	49	CWSR
63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14260	14410	cc	2	1 89	0 32	433	399	97	CWSR
67	Haven 44X-6	04031200850000	-119 95057	36 22078	11900	11990	cc	2	0 87	0 70	418	658	178	CWSR
Kreyenhagen Formation														
1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9760	10496	co	9	4 38	2 33	431	446	100	Ka
3	Hanneman 83-30	04019060880000	-120 15120	36 59958	6966	7192	co	2	2 96	0 19	416	53	48	Ka
6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12590	13100	cc	17	3 11	0 60	424	297	151	Ka
9	Van Sicklen 45	04029036550100	-119 66325	35 53545	14245	14577	cc	2	3 60	0 42	453*	179	23	W
14	NPR-987-25R	04029536860000	-119 44695	35 28448	15784	17933	co	3	0 73	0 62	452*	75	31	Ka
26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12914	13290	swc	17	3 71	1 35	439	388	134	CWSR
27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10652	11921	cc	30	3 06	0 92	441	311	105	Ka
29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12430	12950	cc	18	2 02	0 84	423	277	121	Ka
30	Conoco W Lake 36-1	04031202980000	-119 87068	36 05965	13292	13318	co	4	2 84	0 97	--	578	141	Ka
33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	17820	19090	cc	20	1 15	0 74	442*	203	75	An
34	Union Bravo 1	04019217460000	-120 30113	36 58513	7160	7160	co	1	4 11	0 00	416	451	0	Lu
39	Ferry 1-2	04019202450000	-120 09575	36 38788	9670	10170	co	4	3 54	0 68	416	505	33	Lu
43	61X-17A	04019214330000	-120 36112	36 28139	1750	1930	cc	2	1 37	0 48	424	25	14	Lu
46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	3521	4413	co	10	2 56	0 74	413	247	67	Mi
54	CLA 67-29	04029013650000	-119 30998	35 28479	14206	17463	cc	7	1 40	0 33	444*	171	84	CWSR
58	KCL G-1	04029309240000	-119 13950	35 36286	10394	10498	cc	3	4 70	1 97	418	552	107	CWSR
60	Beer 5	04029375810000	-119 91242	35 65666	4560	8230	cc	21	2 91	0 87	420	327	100	CWSR
67	Haven 44X-6	04031200850000	-119 95057	36 22078	12020	12920	cc	16	2 73	0 91	420	341	243	CWSR
63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14500	15010	cc	5	1 58	0 10	435	224	31	CWSR
86	Jacalitos 67	04019051880000	-120 36621	36 09563	3995	4785	co	9	2 79	1 65	416	342	148	Mi
87	Williamson 33	04029175400000	-119 78958	35 68265	8325	9646	co	10	2 03	1 17	435	345	136	Mi
Moreno Formation														
8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	10910	11720	cc	27	2 95	0 89	427	342	154	Ka
34	Union Bravo 1	04019217460000	-120 30113	36 58513	8540	9830	co	4	1 57	0 37	429	140	36	Lu
36	Shell 363X	04019007020000	-120 3239	36 27841	3460	3460	co	1	2 80	0 00	422	304	0	Lu
39	Ferry 1-2	04019202450000	-120 09575	36 38788	10790	11180	co	3	2 43	0 95	420	382	91	Lu
46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5507	7478	co	191	1 99	0 86	421	169	94	Mc
47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4664	5120	co	16	3 69	1 72	417	270	113	Mc
48	Helm Unit 31-34	04019049140000	-120 11000	36 50120	8207	8354	co	7	0 70	0 48	417	114	31	CWSR
49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2824	3441	co	29	1 99	0 63	412	74	58	Mc
50	Ponte 1	04019060140000	-120 16376	36 77382	5346	5655	co	4	1 17	0 50	413	23	4	Mc
51	Lillis 85-36	04019060730000	-120 60589	36 58309	4999	5599	co	14	2 61	0 74	415	259	69	Mc
52	Henderson 66-22	04019060780000	-120 31988	36 60749	8161	8931	co	2	1 02	0 23	430	99	84	CWSR
53	Cerini 1	04019062390000	-119 90267	36 47505	7530	8040	cc	6	1 84	0 27	421	121	17	CWSR
67	Haven 44X-6	04031200850000	-119 95057	36 22078	13010	13517	cc	9	2 00	0 61	424	225	112	CWSR
73	Dos Palos corehole 3	--	-120 68403	36 64375	269	380	co	13	2 08	0 65	409	143	60	CWSR
89	Fairfield Fee D48-38	04029750780000	-119 56285	35 26828	3210	6100	cc	68	2 33	0 88	415	357	134	Ja
90	White Wolf 205-5	04029891530000	-119 15196	34 98685	1030	6225	cc	75	4 18	0 88	404	480	47	Ja
91	653Z-26B	04030054520000	-119 47267	35 19515	3955	4907	co	98	2 24	0 92	414	295	107	Ja

*High Tmax (associated TOC and HI were corrected to account for thermal maturity)

Table 11.6. Qualitative comparison of thickness, original total organic carbon (TOC_o), and original hydrogen index (HI_o) of the Antelope shale, Kreyenhagen Formation, and Moreno Formation source rocks in local depocenters within the San Joaquin Basin Province.

Source Rock	Depocenter	Thickness, ft	TOC _o , wt. percent	HI _o , mg HC/g TOC
Antelope shale unit (>12,000 ft., >3,660 m)	Tejon	3,000-4,000 (914-1,219 m)	2.0-5.5 [3.5-5.5]†	300-400
	Southern Buttonwillow	500-1,000 (152-305 m)	3.5-4.5	300-400
	Northern Buttonwillow	500-1,000 (152-305 m)	1.0-2.0	200-350
Kreyenhagen Formation (>15,000 ft., >4,572 m)	Tejon	0-400 (0-122 m)	1.0-2.0	100-250
	Southern Buttonwillow	400-800 (122-244 m)	2.0-3.0	150-250
	Northern Buttonwillow	400-800 (122-244 m)	2.0-3.0	300-450
Moreno Formation (>13,500 ft., >4,115 m)	Jacalitos Field area	500-700 (152-213 m)	3.5-4.0	300-350

†Original total organic carbon (and possibly also original hydrogen index) for Antelope shale near the Tejon depocenter may require revision to higher values (in brackets) because the sampled intervals in three control wells only penetrate the upper few hundred meters of source rock and may not be representative of deeper Antelope shale. The bracketed values are the result of interpolation of data remaining after exclusion of these three wells from figure 11.11: Paloma 81X-3, Channel 38X-6, and Tenneco 27X-26 (map number 78, 83, and 84 respectively in fig. 11.3 and table 11.7).

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.

[“X” in first column indicates data used for averaged results in table 11.5. Map number corresponds to numbered wells in figure 11.3. No., number; API, American Petroleum Institute; Bot., bottom; “Interval” column indicates the geologic unit represented by each sample depth on PS-AAPG cross sections (1957a, 1957b, 1958a, 1958b, 1959, 1989), where Tumey is Tumey formation, Kreyenhagen is Kreyenhagen Formation, Antelope is Antelope shale, Moreno is Moreno Formation, and Pt. of Rocks is Point of Rocks Sandstone Member of Kreyenhagen Formation. “Undesignated” interval indicates samples whose depths do not correspond to a source-rock interval based on the cross sections, even though they might be assigned to a source rock in the publication that describes them. Spl., sample type: cc, cuttings; co, core; swc, sidewall. Ext., sample was extracted with solvent prior to analysis. TOC, total organic carbon content in weight percent. Rock-Eval pyrolysis data: S1 and S2 are volatile and cracked hydrocarbons, respectively, in mg HC/g rock; S3 is pyrolytic carbon dioxide in mg CO₂/g rock; Tmax, oven temperature in degrees Centigrade at the maximum S2 value; PI, production index or S1/(S1 + S2); HI, hydrogen index in mg HC/g TOC; OI, oxygen index in mg CO₂/g TOC; Ro, oil-immersion vitrinite reflectance in percent. Data, abbreviated identity of data source: Ka, Kaplan and others (1988); W, Weber (1983); Kr, Kruege (1983); G/W, Graham and Williams (1985); An, anonymous; Ja, Jarvie and others (1995); CWSR, California Well Sample Repository, California State University at Bakersfield (<http://www.wellsample.com>); Gr, Gruenenfelder (1987); Lu, Lu and Kaplan (1987); Mi, Milam (1985); Mc, McGuire (1988)]

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	1	Chevron 4-18J	04019057250000			9518	9527	Tumey	co		1 03	0 16	1 87	0 52	428	0 08	182	50		
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9518	9527	Tumey	co	no	1 03	0 16	1 87	0 52	428	0 08	182	50	--	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9533	9539	Tumey	co	no	1 14	0 15	1 99	0 25	427	0 07	175	22	0 34	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9546	9550	Tumey	co	no	1 27	0 22	3 19	0 93	429	0 06	251	73	--	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9550	9557	Tumey	co	no	1 79	0 30	4 27	0 48	427	0 07	239	27	0 34	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9691	9691	Tumey	co	no	2 57	0 33	1 39	0 46	430	0 19	54	18	--	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9760	9764	Kreyenhagen	co	no	2 62	0 80	6 45	0 64	429	0 11	246	24	0 32	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9804	9805	Kreyenhagen	co	no	2 85	0 63	12 96	0 77	428	0 05	455	27	--	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9902	9907	Kreyenhagen	co	no	4 27	1 57	21 56	1 21	433	0 07	505	28	0 29	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	9963	9968	Kreyenhagen	co	no	3 36	1 02	15 17	1 12	431	0 06	451	33	--	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	10095	10100	Kreyenhagen	co	no	2 46	0 83	8 01	1 19	434	0 09	326	48	--	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	10153	10158	Kreyenhagen	co	no	4 21	1 33	20 06	1 52	431	0 06	476	36	--	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	10189	10194	Kreyenhagen	co	no	6 95	3 18	39 17	2 05	429	0 08	564	29	0 28	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	10284	10290	Kreyenhagen	co	no	9 44	2 92	49 70	2 71	432	0 06	526	29	0 25	G/W
X	1	Chevron 4-18J	04019057250000	-120 18022	36 10254	10490	10496	Kreyenhagen	co	no	3 30	1 28	15 46	1 33	436	0 08	468	40	0 33	G/W
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11018	11021	Undesignated	co	no	0 64	0 02	0 13	--	443	0 13	20	--	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11033	11036	Undesignated	co	no	0 26	--	--	--	--	--	--	--	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11045	11048	Undesignated	co	no	0 47	0 01	0 14	0 07	390	0 07	30	15	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11057	11060	Undesignated	co	no	0 28	--	--	--	--	--	--	--	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11074	11076	Undesignated	co	no	0 49	0 04	0 25	0 34	430	0 14	51	69	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11091	11094	Undesignated	co	no	0 38	--	--	--	--	--	--	--	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11209	11212	Undesignated	co	no	0 31	--	--	--	--	--	--	--	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11231	11233	Undesignated	co	no	0 40	--	--	--	--	--	--	--	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11453	11456	Undesignated	co	no	0 50	0 44	0 42	0 28	338	0 51	84	56	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11486	11487	Undesignated	co	no	0 69	0 43	0 45	0 30	388	0 49	65	43	--	Ka
	2	Chevron E-423-34J	04019059590000	-120 12114	36 05563	11721	11724	Undesignated	co	no	0 52	0 02	0 21	0 27	435	0 09	40	52	0 59	Ka
X	3	Hanneman 83-30	04019060880000	-120 15120	36 59958	6966	6976	Kreyenhagen	co	no	2 82	0 14	2 44	1 91	415	0 05	87	68	0 24	Ka
X	3	Hanneman 83-30	04019060880000	-120 15120	36 59958	7182	7192	Kreyenhagen	co	no	3 09	0 09	0 58	1 37	416	0 13	19	44	--	Ka
X	4	Furtado 55-36	04019062350000	-119 85807	36 23955	7900	7910	Antelope	co	no	2 41	0 06	2 18	1 78	414	0 03	90	74	0 29	Ka
X	4	Furtado 55-36	04019062350000	-119 85807	36 23955	7985	7991	Antelope	co	no	2 12	0 06	3 42	2 07	417	0 02	161	98	--	Ka
	5	Union SPL 1	04019062710000	-120 16417	36 32666	6787	6795	Undesignated	cc	no	0 21	0 37	1 69	0 12	415	0 17	804	57	0 31	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	6846	6854	Undesignated	cc	no	0 40	0 23	1 02	0 46	400	0 10	255	115	0 38	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	6927	6935	Undesignated	cc	no	0 56	0 16	1 19	0 91	412	0 11	212	162	0 27	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7032	7040	Undesignated	cc	no	1 11	0 48	1 92	1 45	406	0 20	172	130	0 31	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7188	7197	Undesignated	cc	no	0 70	1 24	2 34	1 35	385	0 29	334	192	0 27	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7267	7272	Undesignated	cc	no	0 45	0 33	2 01	0 97	465	0 19	446	215	0 28	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7391	7400	Undesignated	cc	no	0 93	0 32	2 18	1 79	428	0 20	234	192	--	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7497	7499	Undesignated	cc	no	1 09	1 43	2 62	1 34	429	0 33	240	122	--	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7576	7581	Undesignated	cc	no	0 69	0 07	1 50	0 88	426	0 13	217	127	0 35	G/W

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7604	7613	Undesignated	cc	no	0 19	0 40	1 09	0 34	390	0 12	573	178	0 27	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7735	7748	Undesignated	cc	no	0 01	--	--	--	--	--	--	--	--	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7739	7748	Undesignated	cc	no	--	--	--	--	--	--	--	0 30	--	G/W
	5	Union SPL 1	04019062710000	-120 16417	36 32666	7766	7773	Undesignated	cc	no	3 57	0 98	14 76	1 94	411	1 31	413	54	0 31	G/W
	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12200	12230	Undesignated	cc	no	0 79	--	0 21	1 58	417	--	27	200	--	Ka
	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12200	12230	Undesignated	cc	no	0 79	--	0 21	1 58	417	--	27	200	--	Ka
	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12230	12260	Undesignated	cc	no	0 63	--	0 21	1 13	421	--	33	179	--	Ka
	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12260	12290	Undesignated	cc	no	0 91	--	0 20	1 11	416	--	22	122	--	Ka
	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12290	12320	Undesignated	cc	no	0 63	0 01	0 07	0 76	319	0 12	11	121	--	Ka
	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12320	12350	Undesignated	cc	no	0 86	0 10	0 54	1 18	426	0 16	63	137	--	Ka
	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12350	12380	Undesignated	cc	no	0 74	0 07	0 28	1 10	426	0 20	38	149	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12380	12410	Tumey	cc	no	1 14	0 04	2 11	1 00	424	0 02	185	88	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12410	12440	Tumey	cc	no	1 14	0 01	0 32	1 46	426	0 03	28	128	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12440	12470	Tumey	cc	no	1 52	0 01	0 88	1 97	427	0 01	58	130	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12470	12500	Tumey	cc	no	2 25	0 13	7 45	1 86	428	0 02	331	83	0 31	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12500	12530	Tumey	cc	no	2 06	0 04	2 25	1 78	429	0 02	109	86	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12530	12560	Tumey	cc	no	2 68	0 14	2 94	2 51	425	0 05	110	94	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12560	12590	Tumey	cc	no	2 96	0 13	3 47	2 00	427	0 04	117	68	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12590	12620	Kreyenhagen	cc	no	4 16	0 68	16 83	4 17	425	0 04	405	100	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12620	12650	Kreyenhagen	cc	no	4 14	0 78	18 34	3 24	423	0 04	443	78	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12650	12680	Kreyenhagen	cc	no	2 68	0 06	2 13	2 55	425	0 03	79	95	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12660	12710	Kreyenhagen	cc	no	3 56	0 97	17 59	2 33	424	0 05	494	65	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12710	12740	Kreyenhagen	cc	no	3 61	0 94	15 96	2 09	424	0 06	442	58	0 32	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12740	12770	Kreyenhagen	cc	no	3 35	0 31	17 68	3 66	424	0 02	528	109	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12770	12800	Kreyenhagen	cc	no	3 44	0 08	1 83	2 47	425	0 04	53	72	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12800	12830	Kreyenhagen	cc	no	2 88	0 22	5 63	2 21	424	0 04	195	77	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12830	12860	Kreyenhagen	cc	no	2 27	0 09	2 91	2 84	428	0 03	128	125	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12860	12890	Kreyenhagen	cc	no	2 44	0 12	4 11	2 13	429	0 03	168	87	0 39	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12890	12920	Kreyenhagen	cc	no	2 28	0 12	5 03	1 81	423	0 02	221	79	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12920	12950	Kreyenhagen	cc	no	2 87	0 26	11 35	2 03	421	0 02	395	71	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12950	12980	Kreyenhagen	cc	no	2 63	0 10	4 67	2 43	427	0 02	178	92	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	12980	13010	Kreyenhagen	cc	no	2 99	0 21	8 45	2 03	425	0 02	283	68	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	13010	13040	Kreyenhagen	cc	no	3 59	0 50	15 85	1 63	420	0 03	442	45	0 34	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	13040	13070	Kreyenhagen	cc	no	3 49	0 79	8 86	7 67	420	0 08	254	220	--	Ka
X	6	Aqueduct 1-14	04019215720000	-119 98513	36 18994	13070	13100	Kreyenhagen	cc	no	2 57	0 23	8 88	2 35	424	0 03	346	91	0 35	Ka
	7	Texaco Core Hole 57	04019221900000	-120 39021	36 18335	1523	1523	Undesignated	co	no	0 97	0 02	0 41	1 16	385	0 05	42	120	--	Ka
	7	Texaco Core Hole 57	04019221900000	-120 39021	36 18335	1688	1688	Undesignated	co	no	0 11	--	--	0 45	286	--	--	409	--	Ka
	7	Texaco Core Hole 57	04019221900000	-120 39021	36 18335	1868	1868	Undesignated	co	no	1 00	2 23	0 97	0 88	367	0 70	97	88	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	10910	10940	Moreno	cc	no	1 32	0 01	1 49	1 27	428	0 01	113	96	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	10940	10970	Moreno	cc	no	1 49	--	1 52	1 45	431	--	102	97	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	10970	11000	Moreno	cc	no	1 85	0 08	6 23	1 14	427	0 01	337	62	0 35	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11000	11030	Moreno	cc	no	2 73	0 06	4 48	3 31	431	0 01	164	121	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11030	11060	Moreno	cc	no	2 51	0 05	3 80	2 66	433	0 01	151	106	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11060	11090	Moreno	cc	no	2 57	0 13	7 52	1 90	428	0 02	293	74	--	Ka

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tm x	PI	HI	OI	Ro	Da a
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11090	11120	Moreno	cc	no	2 33	0 18	9 84	1 84	429	0 02	422	79	0 36	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11120	11150	Moreno	cc	no	3 24	0 13	8 57	3 57	429	0 01	265	110	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11150	11180	Moreno	cc	no	2 00	0 03	2 95	1 91	430	0 01	148	96	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11180	11210	Moreno	cc	no	2 08	0 04	3 05	2 31	429	0 01	147	111	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11210	11240	Moreno	cc	no	2 31	0 15	8 46	1 83	426	0 02	366	79	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11240	11270	Moreno	cc	no	2 53	0 42	14 37	1 61	425	0 03	568	64	0 34	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11270	11300	Moreno	cc	no	3 77	0 25	19 67	3 40	422	0 01	522	90	0 37	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11300	11330	Moreno	cc	no	4 22	0 21	12 18	4 00	424	0 02	289	95	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11330	11360	Moreno	cc	no	4 98	0 22	9 74	2 25	427	0 02	196	45	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11360	11390	Moreno	cc	no	3 77	0 51	16 00	1 20	425	0 03	424	32	0 37	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11390	11420	Moreno	cc	no	3 76	0 19	7 27	2 04	427	0 03	193	54	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11420	11450	Moreno	cc	no	3 66	0 17	11 81	2 63	428	0 01	323	72	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11450	11480	Moreno	cc	no	4 36	0 61	20 87	2 50	424	0 03	479	57	0 37	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11480	11510	Moreno	cc	no	3 35	0 63	20 31	2 22	425	0 03	606	66	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11510	11540	Moreno	cc	no	3 75	0 51	16 85	2 31	425	0 03	449	62	0 36	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11540	11570	Moreno	cc	no	3 21	0 39	15 08	2 13	423	0 03	470	66	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11570	11600	Moreno	cc	no	2 36	0 09	7 68	1 76	428	0 01	325	75	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11600	11630	Moreno	cc	no	2 53	0 23	9 65	1 39	426	0 02	381	55	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11630	11660	Moreno	cc	no	2 76	0 40	13 87	1 25	426	0 03	503	45	0 35	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11660	11690	Moreno	cc	no	3 21	0 41	18 83	2 45	426	0 02	587	76	--	Ka
X	8	Bravo Oil 1-35	04019223540000	-120 19988	36 23955	11690	11720	Moreno	cc	no	2 89	0 35	12 02	1 69	427	0 03	416	58	0 38	Ka
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	4136	4154	Undesignated	cc	no	0 80	0 16	0 58	0 42	419	0 22	73	52	0 31	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	6600	6613	Undesignated	cc	no	1 50	0 32	1 76	0 44	421	0 15	117	29	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	7482	7570	Undesignated	cc	no	1 30	0 21	1 48	0 38	435	0 12	114	29	0 38	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	8388	8399	Antelope	cc	no	--	2 32	17 54	0 50	424	0 12	--	--	--	W
X	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	8388	8399	Antelope	cc	yes	3 68	0 78	18 16	1 20	424	0 04	493	32	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	8686	8701	Antelope	cc	no	--	--	--	--	--	--	--	--	0 12	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	8696	8701	Antelope	cc	no	--	2 80	43 67	0 79	424	0 06	--	--	--	W
X	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	8696	8701	Antelope	cc	yes	7 19	1 12	43 66	1 67	428	0 03	607	23	--	W
X	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	9187	9195	Antelope	cc	no	4 60	2 12	16 94	0 55	422	0 11	368	12	--	W
X	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	9659	9670	Antelope	cc	no	2 80	0 99	9 89	0 36	433	0 09	353	13	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	10165	10174	Undesignated	cc	no	1 60	0 55	5 82	0 32	437	0 09	364	20	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	10174	10177	Undesignated	cc	no	--	--	--	--	--	--	--	--	0 23	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	10492	10495	Undesignated	cc	no	1 70	0 87	7 00	0 29	437	0 11	412	17	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	10646	10656	Undesignated	cc	no	--	--	--	--	--	--	--	--	0 30	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	11506	11510	Undesignated	cc	no	1 20	0 39	2 48	0 16	438	0 14	207	13	0 36	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	11515	11528	Undesignated	cc	no	1 20	0 46	2 75	0 22	437	0 14	230	18	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	11582	11585	Undesignated	cc	no	1 50	0 61	3 19	0 26	439	0 16	213	17	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	11585	11588	Undesignated	cc	no	1 40	0 45	2 48	0 43	441	0 13	213	31	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	11620	11620	Undesignated	cc	no	0 80	0 52	1 09	0 20	433	0 32	136	25	0 50	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	11815	11820	Undesignated	cc	no	1 50	0 78	4 47	0 14	441	0 15	298	9	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	12020	12037	Undesignated	cc	no	2 20	2 61	9 69	0 68	444	0 21	440	31	--	W
	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	13958	13968	Undesignated	cc	no	3 90	0 74	4 00	0 16	452	0 15	104	4	0 30	W
X	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	14245	14245	Kreyenhagen	cc	no	3 90	1 00	6 37	0 24	454	0 14	163	6	--	W
X	9	Van Sicklen 45	04029036550100	-119 66325	35 53545	14557	14577	Kreyenhagen	cc	no	3 30	2 49	6 43	0 33	451	0 28	195	10	--	W

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	10	Mobil (GP) 2-110	04029176880000	-119 7515	35 65538	2400	2400	Antelope	co	no	--	7 97	10 71	--	394	0 43	--	--	--	Kr
X	10	Mobil (GP) 2-110	04029176880000	-119 7515	35 65538	2600	2600	Antelope	co	no	4 19	8 11	14 54	1 42	402	0 36	347	--	--	Kr
	10	Mobil (GP) 2-110	04029176880000	-119 7515	35 65538	2800	2800	Antelope	co	no	--	1 07	3 02	--	403	0 26	--	--	--	Kr
	10	Mobil (GP) 2-110	04029176880000	-119 7515	35 65538	3000	3000	Antelope	co	no	--	0 52	1 07	--	387	0 33	--	--	--	Kr
	11	ARCO WRU 16-28	04029207620000	-119 02688	35 00961	11060	11060	Undesignated	co	no	0 18	--	--	--	--	--	--	--	--	Ka
	11	ARCO WRU 16-28	04029207620000	-119 02688	35 00961	11260	11260	Undesignated	co	no	0 95	0 15	0 51	2 73	429	0 23	54	287	--	Ka
	11	ARCO WRU 16-28	04029207620000	-119 02688	35 00961	11340	11340	Undesignated	co	no	0 60	0 01	0 24	1 70	433	0 04	40	283	--	Ka
	11	ARCO WRU 16-28	04029207620000	-119 02688	35 00961	11399	11414	Undesignated	cc	no	1 01	0 09	1 08	0 57	437	0 08	107	56	--	Ka
	11	ARCO WRU 16-28	04029207620000	-119 02688	35 00961	11520	11520	Undesignated	co	no	0 79	0 03	0 44	1 40	430	0 06	56	177	--	Ka
	12	ARCO KCLD-26-29	04029207940000	-119 04277	35 00983	2631	2631	Undesignated	co	no	2 81	0 28	3 11	1 88	401	0 08	111	67	0 28	Ka
X	12	ARCO KCLD-26-29	04029207940000	-119 04277	35 00983	2792	2792	Antelope	co	no	6 92	1 12	18 62	5 06	407	0 06	269	73	0 29	Ka
	12	ARCO KCLD-26-29	04029207940000	-119 04277	35 00983	3912	3912	Undesignated	co	no	1 85	0 08	0 75	0 90	413	0 10	41	49	--	Ka
X	12	ARCO KCLD-26-29	04029207940000	-119 04277	35 00983	4303	4303	Antelope	co	no	4 06	0 46	13 53	2 25	420	0 03	333	55	0 32	Ka
X	12	ARCO KCLD-26-29	04029207940000	-119 04277	35 00983	4987	4987	Antelope	co	no	3 36	0 45	6 46	1 95	408	0 07	192	58	--	Ka
	12	ARCO KCLD-26-29	04029207940000	-119 04277	35 00983	7412	7412	Undesignated	co	no	0 95	0 07	0 38	0 42	418	0 16	40	44	0 43	Ka
	12	ARCO KCLD-26-29	04029207940000	-119 04277	35 00983	8958	8958	Undesignated	co	no	1 08	0 14	0 57	0 55	404	0 20	53	51	--	Ka
	12	ARCO KCLD-26-29	04029207940000	-119 04277	35 00983	10153	10153	Undesignated	co	no	1 60	0 20	1 95	0 80	415	0 09	122	50	0 31	Ka
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	1790	1790	Undesignated	co	no	7 41	27 86	32 91	2 37	412	0 46	444	32	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	1903	1903	Undesignated	co	no	10 23	47 49	61 16	1 64	411	0 44	601	16	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	1903	1903	Undesignated	co	yes	2 11	1 12	9 08	2 34	421	0 11	430	111	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2009	2009	Undesignated	co	no	--	19 62	27 06	--	412	0 42	--	--	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2139	2139	Undesignated	co	no	3 16	7 43	12 13	3 07	408	0 38	384	97	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2245	2245	Undesignated	co	no	2 15	3 64	7 02	2 62	411	0 34	327	122	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2266	2266	Undesignated	co	no	3 03	6 50	11 66	4 48	411	0 36	384	148	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2346	2346	Undesignated	co	no	3 24	9 64	9 55	1 39	381	0 50	299	43	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2346	2346	Undesignated	co	yes	2 05	2 05	3 18	2 07	394	0 39	155	101	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2445	2445	Undesignated	co	no	2 39	3 81	6 23	1 17	394	0 38	261	49	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2540	2540	Antelope	co	no	2 53	6 71	5 29	1 29	376	0 56	212	51	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2540	2540	Antelope	co	yes	1 97	2 79	2 86	1 56	412	0 49	145	79	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2642	2642	Antelope	co	no	1 40	1 00	1 52	0 90	383	0 40	109	64	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2754	2754	Antelope	co	no	--	1 97	4 75	--	393	0 29	--	--	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	2855	2855	Antelope	co	no	--	1 07	3 02	--	403	0 26	--	--	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	3058	3058	Antelope	co	no	--	0 52	1 07	--	387	0 33	--	--	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	3154	3154	Antelope	co	no	--	2 01	6 93	--	393	0 22	--	--	--	Kr
X	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	3245	3245	Antelope	co	no	5 97	2 40	12 90	2 99	395	0 16	216	50	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	3565	3565	Antelope	co	no	----	0 74	6 18	----	404	0 11	----	----	--	Kr
X	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	3687	3687	Antelope	co	no	3 23	1 44	8 15	3 00	411	0 15	252	93	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	3833	3833	Antelope	co	no	----	1 06	6 55	----	409	0 14	----	----	--	Kr
X	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	4156	4156	Antelope	co	no	7 73	4 70	36 73	2 86	398	0 11	475	37	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	4156	4156	Antelope	co	yes	7 19	2 18	36 24	3 38	412	0 06	504	47	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	4265	4265	Antelope	co	no	--	1 95	25 30	--	411	0 07	--	--	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	4392	4392	Antelope	co	no	--	1 44	13 24	--	408	0 10	--	--	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	4432	4432	Antelope	co	no	--	1 04	10 48	--	421	0 09	--	--	--	Kr
	13	Universal Consolidated 44	04029214630000	-119 73196	35 62241	4672	4672	Antelope	co	no	--	0 32	5 82	--	417	0 05	--	--	--	Kr
X	14	MPR-987-25R	04029536860000	-119 44695	35 28448	15784	15784	Kreyenhagen	co	no	1 44	1 31	1 54	0 60	454	0 46	107	42	0 53	Ka

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	14	MPR-987-25R	04029536860000	-119 44695	35 28448	16908	16908	Kreyenhagen	co	no	--	1 36	0 87	0 47	398	0 61	--	--	--	Ka
X	14	NPR-987-25R	04029536860000	-119 44695	35 28448	17926	17926	Kreyenhagen	co	no	0 33	0 13	0 15	0 22	459	0 46	45	67	--	Ka
X	14	MPR-987-25R	04029536860000	-119 44695	35 28448	17932	17933	Kreyenhagen	co	no	0 41	0 22	0 30	0 34	442	0 42	73	83	--	Ka
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11710	11712	Undesignated	co	no	0 37	0 10	0 94	0 00	433	0 10	254	0	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11710	11712	Undesignated	co	yes	0 47	0 36	1 26	0 30	434	0 22	268	63	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11710	11712	Undesignated	co	no	--	0 51	3 70	0 17	435	0 12	--	--	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11710	11712	Undesignated	co	yes	0 87	0 12	3 73	0 04	437	0 03	428	4	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11710	11712	Undesignated	co	no	--	0 51	4 97	0 20	434	0 09	--	--	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11710	11712	Undesignated	co	yes	1 45	0 15	5 58	0 33	435	0 03	384	22	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11716	11716	Undesignated	co	no	--	1 05	15 57	0 42	432	0 06	----	----	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11716	11716	Undesignated	co	yes	2 13	0 64	8 26	0 24	430	0 07	387	11	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11717	11717	Undesignated	co	no	--	1 21	6 44	0 51	432	0 16	--	--	--	G/W
	15	Cal Canal 81X-6	04029560890000	-119 64398	35 43956	11717	11717	Undesignated	co	yes	1 86	0 41	6 92	0 63	431	0 06	372	33	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	10886	10886	Undesignated	co	no	0 36	0 32	0 97	0 74	435	0 35	269	205	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	10886	10886	Undesignated	co	yes	0 29	0 26	1 36	0 05	432	0 16	468	17	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	10891	10891	Undesignated	co	no	0 75	0 51	2 62	0 07	433	0 16	349	9	0 25	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	10891	10891	Undesignated	co	yes	0 61	0 12	2 08	0 31	434	0 05	340	50	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	10891	10891	Undesignated	co	no	1 44	0 75	6 70	0 12	432	0 10	465	8	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	10891	10891	Undesignated	co	yes	1 14	0 08	4 62	0 17	434	0 02	405	14	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11206	11206	Undesignated	co	no	1 53	0 91	7 28	0 25	434	0 11	475	16	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11206	11206	Undesignated	co	yes	1 34	0 14	5 99	0 17	436	0 02	447	12	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11206	11206	Undesignated	co	no	3 11	0 88	16 54	0 45	432	0 05	531	14	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11206	11206	Undesignated	co	yes	2 99	0 23	16 01	0 51	431	0 01	535	17	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11206	11206	Undesignated	co	no	--	1 00	12 88	0 97	432	0 07	--	--	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11217	11217	Undesignated	co	no	0 42	0 20	1 10	0 41	436	0 15	261	97	0 30	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11217	11217	Undesignated	co	yes	0 46	0 07	1 20	0 22	432	0 06	260	47	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11219	11219	Undesignated	co	no	1 32	1 16	6 42	0 46	434	0 15	486	34	0 26	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11219	11219	Undesignated	co	yes	1 13	0 17	5 56	0 24	434	0 03	492	21	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11219	11219	Undesignated	co	no	1 88	1 52	9 39	0 49	432	0 14	499	20	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11219	11219	Undesignated	co	yes	1 67	0 31	7 94	0 37	432	0 04	475	22	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11219	11219	Undesignated	co	no	--	1 30	7 36	0 57	432	0 15	--	--	--	G/W
	16	Cal Canal 61-5	04029562210000	-119 62947	35 44046	11710	11712	Undesignated	co	no	--	--	--	--	--	--	--	--	0 30	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11128	11128	Undesignated	co	no	0 49	1 00	1 37	0 50	436	0 42	279	102	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11128	11128	Undesignated	co	yes	0 26	0 01	0 60	0 21	440	0 02	230	80	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11135	11135	Undesignated	co	no	0 47	0 67	1 06	0 42	432	0 39	225	89	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11135	11135	Undesignated	co	yes	0 32	0 05	0 76	0 31	434	0 06	237	96	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11138	11138	Undesignated	co	no	--	1 11	6 85	1 16	433	0 14	--	--	0 41	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11138	11138	Undesignated	co	yes	2 00	0 27	8 22	0 51	434	0 03	411	25	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11159	11159	Undesignated	co	no	0 16	0 38	0 36	0 21	429	0 51	225	131	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11159	11159	Undesignated	co	yes	0 10	0 03	0 25	0 10	439	0 11	250	100	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11164	11164	Undesignated	co	no	0 12	0 77	2 46	0 30	432	0 24	341	41	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11164	11164	Undesignated	co	yes	0 60	0 11	2 08	0 21	436	0 05	346	35	--	G/W
	17	Cal Canal 42-5	04029575720000	-119 62614	35 43594	11164	11164	Undesignated	co	no	2 59	0 60	14 50	0 37	431	0 04	559	14	--	G/W

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11164	11164	Undesignated	co	yes	2 44	0 20	13 34	0 46	433	0 01	546	18	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11164	11164	Undesignated	co	no	--	0 57	12 36	0 40	433	0 04	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11169	11169	Undesignated	co	no	--	2 33	11 39	0 63	432	0 17	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11169	11169	Undesignated	co	yes	2 27	0 54	10 68	0 54	430	0 05	470	23	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11178	11178	Undesignated	co	no	--	2 83	15 67	0 80	430	0 15	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11178	11178	Undesignated	co	yes	1 73	0 27	8 64	0 55	431	0 03	499	31	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11180	11180	Undesignated	co	no	--	2 71	9 94	0 66	431	0 21	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11180	11180	Undesignated	co	yes	1 66	0 76	8 76	0 55	432	0 08	527	33	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11360	11360	Undesignated	co	no	0 35	0 69	0 90	0 44	431	0 44	257	125	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11360	11360	Undesignated	co	yes	0 25	0 13	0 80	0 28	436	0 14	320	112	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11368	11368	Undesignated	co	no	--	0 65	12 52	0 49	432	0 05	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11368	11368	Undesignated	co	yes	2 08	0 26	10 63	0 34	432	0 02	511	16	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11385	11385	Undesignated	co	no	0 48	0 41	1 46	0 31	435	0 22	304	64	0 42	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11385	11385	Undesignated	co	yes	0 41	0 14	1 29	0 26	435	0 10	314	63	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11388	11391	Undesignated	co	no	--	1 35	7 19	0 59	430	0 16	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11388	11391	Undesignated	co	yes	1 69	0 57	7 00	0 24	430	0 08	414	14	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11391	11393	Undesignated	co	no	--	0 54	3 00	0 51	434	0 15	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11391	11393	Undesignated	co	yes	0 68	0 31	2 90	0 20	433	0 10	426	29	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11410	11410	Undesignated	co	no	--	0 01	10 77	0 83	428	0 05	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11410	11410	Undesignated	co	yes	2 37	0 02	13 18	0 75	423	0 04	556	31	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11413	11413	Undesignated	co	no	--	0 70	20 18	1 09	427	0 03	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11413	11413	Undesignated	co	yes	3 33	0 38	19 49	0 66	422	0 02	585	19	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11413	11413	Undesignated	co	no	--	0 38	8 73	0 78	425	0 04	--	--	--	G/W
17		Cal Canal 42-5	04029575720000	-119 62614	35 43594	11413	11413	Undesignated	co	yes	1 53	0 17	8 10	0 39	423	0 02	529	25	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10865	10865	Undesignated	co	no	--	0 52	18 71	0 60	428	0 03	--	--	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10865	10865	Undesignated	co	yes	4 04	0 20	22 58	0 59	428	0 01	558	14	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10866	10866	Undesignated	co	no	--	0 88	13 01	0 63	432	0 06	--	--	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10866	10866	Undesignated	co	yes	0 15	0 06	0 32	0 23	432	0 16	213	153	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10866	10866	Undesignated	co	no	2 71	1 05	13 78	0 22	433	0 07	508	8	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10866	10866	Undesignated	co	yes	2 54	0 38	12 04	0 34	433	0 03	474	13	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10868	10868	Undesignated	co	no	--	4 16	13 66	0 94	433	0 23	--	--	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10868	10868	Undesignated	co	yes	1 48	0 19	6 17	0 18	433	0 03	416	12	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10874	10874	Undesignated	co	no	0 24	0 27	0 52	0 08	428	0 35	216	33	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10874	10874	Undesignated	co	yes	0 18	0 03	0 34	0 02	434	0 08	188	11	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10874	10874	Undesignated	co	no	2 30	0 68	11 06	0 28	432	0 06	478	12	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10874	10874	Undesignated	co	yes	2 22	0 32	9 84	6 55	432	0 03	443	24	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10885	10885	Undesignated	co	no	2 55	1 28	7 49	0 45	432	0 15	293	17	0 44	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10885	10885	Undesignated	co	yes	2 42	0 44	6 18	0 49	433	0 07	255	20	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10885	10885	Undesignated	co	no	2 15	0 85	10 39	0 49	433	0 08	483	22	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10885	10885	Undesignated	co	yes	1 93	0 19	8 55	0 51	433	0 02	443	26	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10897	10897	Undesignated	co	no	0 58	1 43	1 95	0 61	429	0 42	336	105	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10897	10897	Undesignated	co	yes	0 21	0 03	0 61	0 22	436	0 05	290	104	--	G/W
18		Pierson 32-12	04029576380000	-119 63409	35 44586	10899	10899	Undesignated	co	no	--	0 73	10 43	0 94	435	0 07	--	--	--	G/W

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	10899	10899	Undesignated	co	yes	2 51	0 19	11 58	0 37	432	0 02	461	14	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	10904	10904	Undesignated	co	no	--	3 33	17 90	1 01	433	0 16	--	--	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	10904	10904	Undesignated	co	yes	1 21	0 29	14 23	0 58	432	0 02	528	21	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	10913	10913	Undesignated	co	no	0 51	1 07	1 25	1 44	430	0 46	245	282	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	10913	10913	Undesignated	co	yes	0 28	0 03	0 80	0 88	433	0 04	0	314	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	10914	10914	Undesignated	co	no	--	3 48	11 96	3 77	433	0 23	--	--	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	10914	10914	Undesignated	co	yes	3 04	0 27	15 50	0 49	432	0 02	509	16	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11218	11218	Undesignated	co	no	1 31	9 23	2 44	0 78	433	0 79	186	59	0 35	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11218	11218	Undesignated	co	yes	0 56	0 81	1 85	0 56	435	0 30	330	100	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11228	11228	Undesignated	co	no	--	1 20	5 58	0 97	432	0 18	--	--	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11228	11228	Undesignated	co	yes	1 50	0 09	7 72	0 46	432	0 01	514	30	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11230	11230	Undesignated	co	no	--	25 00	7 32	1 56	431	0 77	--	--	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11230	11230	Undesignated	co	yes	2 54	0 17	14 66	0 73	432	0 01	577	28	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11238	11238	Undesignated	co	no	--	6 79	8 32	1 16	434	0 45	--	--	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11238	11238	Undesignated	co	yes	2 32	0 25	12 02	0 16	436	0 02	518	6	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11241	11241	Undesignated	co	no	0 32	0 35	0 98	0 00	436	0 27	306	0	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11241	11241	Undesignated	co	yes	0 24	0 04	0 76	0 00	437	0 05	316	0	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11250	11250	Undesignated	co	no	--	4 02	13 61	1 11	433	0 23	--	--	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11250	11250	Undesignated	co	yes	2 27	0 56	11 87	0 26	434	0 05	522	11	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11251	11251	Undesignated	co	no	--	4 05	11 32	1 17	431	0 26	--	--	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11251	11251	Undesignated	co	yes	1 74	0 46	8 41	0 19	435	0 05	483	10	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11254	11254	Undesignated	co	no	--	1 91	9 75	1 05	434	0 16	--	--	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11254	11254	Undesignated	co	yes	1 97	0 37	9 77	0 19	432	0 04	495	9	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11255	11255	Undesignated	co	no	0 42	0 60	1 10	0 00	434	0 35	261	0	--	G/W
	18	Pierson 32-12	04029576380000	-119 63409	35 44586	11255	11255	Undesignated	co	yes	0 32	0 05	0 85	0 00	436	0 06	265	0	--	G/W
	19	Gulf 141	04029620880000	-119 71659	35 58606	4621	4621	Antelope	co	no	1 98	4 08	6 22	0 81	412	0 40	314	41	--	Kr
	19	Gulf 141	04029620880000	-119 71659	35 58606	4662	4662	Antelope	co	no	--	0 83	4 27	--	425	0 16	--	--	--	Kr
	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4726	4726	Antelope	co	no	--	12 68	15 17	--	413	0 46	--	--	--	Kr
	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4751	4751	Antelope	co	no	--	0 31	1 63	--	420	0 16	--	--	--	Kr
	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4821	4821	Antelope	co	no	--	2 06	11 45	--	407	0 15	--	--	--	Kr
X	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4835	4835	Antelope	co	no	4 46	15 85	20 22	1 03	412	0 44	457	23	--	Kr
X	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4835	4835	Antelope	co	yes	2 60	0 59	13 21	1 64	413	0 04	508	63	--	Kr
	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4870	4870	Antelope	co	no	--	12 92	37 83	--	409	0 25	--	--	--	Kr
	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4913	4913	Antelope	co	no	--	8 86	28 51	--	405	0 24	--	--	--	Kr
X	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4926	4926	Antelope	co	no	3 97	16 45	21 51	0 87	413	0 43	542	22	--	Kr
X	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4926	4926	Antelope	co	yes	2 02	0 57	12 89	1 27	418	0 04	638	61	--	Kr
	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4930	4930	Antelope	co	no	--	3 21	24 26	--	412	0 12	--	--	--	Kr
	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	4943	4943	Antelope	co	no	--	13 86	20 45	--	408	0 40	--	--	--	Kr
X	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	5063	5063	Antelope	co	no	2 42	2 51	10 20	0 70	407	0 20	421	29	--	Kr
X	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	5618	5618	Antelope	co	no	6 06	5 78	28 35	1 15	400	0 17	471	19	--	Kr
X	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	5618	5618	Antelope	co	yes	5 64	1 09	28 29	1 92	416	0 04	501	34	--	Kr
X	20	Chevron Monte Christo 163	04029625120000	-119 71218	35 58257	5689	5689	Antelope	co	no	7 68	3 22	35 48	0 92	415	0 08	462	12	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	4822	4822	Undesignated	co	no	2 74	5 07	9 11	0 96	413	0 36	332	35	--	Kr

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	4840	4840	Undesignated	co	no	--	0 80	3 88	--	415	0 17	--	--	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	4861	4861	Undesignated	co	no	2 73	7 36	9 07	0 74	406	0 45	332	27	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	4979	4979	Undesignated	co	no	----	4 27	6 81	----	421	0 39	--	--	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5020	5020	Undesignated	co	no	3 22	8 30	12 90	0 81	416	0 40	404	25	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5020	5020	Undesignated	co	yes	2 10	0 39	7 46	1 51	421	0 05	355	72	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5125	5125	Undesignated	co	no	--	6 41	13 01	--	412	0 33	--	--	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5159	5159	Undesignated	co	no	3 87	7 77	16 47	0 93	415	0 32	426	24	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5159	5159	Undesignated	co	yes	2 79	0 43	11 79	1 62	416	0 04	422	58	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5236	5236	Antelope	co	no	--	1 41	12 11	--	414	0 09	--	--	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5253	5253	Antelope	co	no	--	2 55	26 19	--	412	0 09	--	--	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5305	5305	Antelope	co	no	--	1 52	11 70	--	406	0 11	--	--	--	Kr
X	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5409	5409	Antelope	co	no	2 60	0 60	13 13	0 70	416	0 04	505	27	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	5503	5503	Antelope	co	no	--	1 44	14 78	--	416	0 09	--	--	--	Kr
X	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	6031	6031	Antelope	co	no	7 88	2 46	54 03	0 79	418	0 04	688	10	--	Kr
	21	Gulf 142 (4-16)	04029628170000	-119 7164	35 58427	6031	6031	Undesignated	co	yes	7 45	1 17	50 40	1 34	420	0 02	676	18	--	Kr
X	22	Getty 9D-523	04029645000000	-119 40683	35 16054	3662	3662	Antelope	co	no	5 01	8 61	16 87	0 47	403	0 34	337	9	--	G/W
X	22	Getty 9D-523	04029645000000	-119 40683	35 16054	3669	3669	Antelope	co	no	3 80	15 20	14 62	0 30	407	0 51	385	8	--	G/W
X	22	Getty 9D-523	04029645000000	-119 40683	35 16054	4050	4050	Antelope	co	no	3 68	7 98	15 97	0 22	411	0 33	434	6	--	G/W
X	22	Getty 9D-523	04029645000000	-119 40683	35 16054	4110	4110	Antelope	co	no	2 99	15 60	12 42	0 70	415	0 56	415	23	--	G/W
X	22	Getty 9D-523	04029645000000	-119 40683	35 16054	4457	4457	Antelope	co	no	2 72	>32	9 70	0 55	412	0 77	357	20	--	G/W
X	22	Getty 9D-523	04029645000000	-119 40683	35 16054	4497	4497	Antelope	co	no	2 70	13 67	10 66	0 43	410	0 56	395	16	--	G/W
X	22	Getty 9D-523	04029645000000	-119 40683	35 16054	4537	4537	Antelope	co	no	4 19	2 62	18 95	0 76	415	0 12	452	18	--	G/W
X	22	Getty 9D-523	04029645000000	-119 40683	35 16054	4857	4857	Antelope	co	no	3 29	4 72	15 92	0 70	413	0 23	484	21	--	G/W
	22	Getty 9D-523	04029645000000	-119 40683	35 16054	5207	5207	Undesignated	co	no	0 36	0 64	2 07	0 99	421	0 24	575	275	--	G/W
	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	3722	3722	Antelope	co	no	--	1 42	7 23	--	407	0 16	--	--	--	Kr
X	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	3760	3760	Antelope	co	no	4 80	3 90	20 75	4 22	406	0 16	432	88	--	Kr
X	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	3913	3913	Antelope	co	no	2 25	0 87	5 29	--	414	0 14	235	--	--	Kr
	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	4023	4023	Antelope	co	no	--	0 90	6 71	--	406	0 12	--	--	--	Kr
	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	4272	4272	Antelope	co	no	--	1 44	13 24	--	408	0 10	--	--	--	Kr
X	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	4600	4600	Antelope	co	no	7 24	30 63	37 43	0 00	414	0 45	521	0	--	Kr
X	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	4600	4600	Antelope	co	yes	2 87	0 34	15 04	1 81	420	0 02	524	63	--	Kr
	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	4698	4698	Antelope	co	no	--	24 19	35 19	----	412	0 41	----	----	--	Kr
	23	Chevron 9-3X	04029646420000	-119 71512	35 59923	5214	5214	Antelope	co	no	--	3 39	26 96	----	414	0 11	----	----	--	Kr
X	24	Arco 801	04029651490000	-119 70753	35 56033	6570	6570	Antelope	co	no	2 28	0 32	6 88	0 43	427	0 04	302	19	--	Kr
X	24	Arco 801	04029651490000	-119 70753	35 56033	7425	7425	Antelope	co	no	2 83	0 91	14 81	0 42	425	0 06	523	15	--	Kr
	25	Arco 901	04029651590000	-119 72554	35 57124	6511	6511	Antelope	co	no	--	0 16	3 08	--	427	0 05	--	--	--	Kr
X	25	Arco 901	04029651590000	-119 72554	35 57124	7095	7095	Antelope	co	no	2 05	1 33	15 72	0 62	423	0 08	767	30	--	Kr
X	25	Arco 901	04029651590000	-119 72554	35 57124	7095	7095	Antelope	co	yes	1 67	0 21	10 20	1 64	423	0 02	610	98	--	Kr
	25	Arco 901	04029651590000	-119 72554	35 57124	7152	7152	Antelope	co	no	--	1 08	14 29	--	423	0 07	--	--	--	Kr
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12300	12330	Tumey	cc	no	2 79	1 75	9 98	0 79	437	0 15	358	28	0 33	Ka
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12330	12360	Tumey	cc	no	2 86	1 46	11 00	0 89	438	0 12	385	31	--	Ka
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12360	12390	Tumey	cc	no	1 68	1 36	5 05	0 84	436	0 21	301	50	0 42	Ka
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12390	12420	Tumey	cc	no	2 89	1 97	9 58	1 11	433	0 17	331	38	--	Ka

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12450	12480	Tumey	cc	no	3 09	1 24	9 80	0 97	440	0 11	317	31	0 48	Ka
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12480	12510	Tumey	cc	no	3 00	2 16	12 17	1 27	439	0 15	406	42	--	Ka
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12510	12540	Tumey	cc	no	3 21	2 24	11 41	1 30	441	0 16	355	40	0 66	Ka
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12540	12570	Tumey	cc	no	2 54	1 55	10 44	0 96	436	0 13	411	38	--	Ka
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12570	12600	Tumey	cc	no	3 24	1 77	12 50	1 21	436	0 12	386	37	0 34	Ka
	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12880	12900	Tumey	cc	no	2 74	1 47	11 82	1 00	443	0 11	431	36	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12914	12914	Kreyenhagen	swc	no	6 14	1 90	18 31	0 65	441	0 09	298	11	0 33	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12920	12920	Kreyenhagen	swc	no	3 11	1 69	22 37	0 63	440	0 07	719	20	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12960	12960	Kreyenhagen	swc	no	5 07	2 53	34 34	0 76	436	0 07	677	15	0 33	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12960	12990	Kreyenhagen	swc	no	3 55	1 86	13 80	1 30	438	0 12	389	37	0 39	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	12993	12993	Kreyenhagen	swc	no	3 54	1 69	5 80	0 66	438	0 23	164	19	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13005	13005	Kreyenhagen	swc	no	5 07	3 06	21 31	1 02	441	0 13	420	20	0 34	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13010	13010	Kreyenhagen	swc	no	5 07	3 00	16 20	0 84	436	0 16	320	17	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13046	13046	Kreyenhagen	cc	no	5 22	3 67	16 01	2 83	439	0 19	307	54	0 43	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13053	13053	Kreyenhagen	cc	no	3 91	2 54	13 55	0 68	444	0 16	347	17	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13072	13072	Kreyenhagen	cc	no	4 94	3 14	17 71	0 65	441	0 15	359	13	0 40	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13080	13110	Kreyenhagen	cc	no	2 92	1 19	9 62	1 06	443	0 11	329	36	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13110	13140	Kreyenhagen	cc	no	2 12	0 60	6 98	0 77	442	0 08	329	36	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13140	13170	Kreyenhagen	cc	no	3 46	1 32	15 43	1 14	438	0 08	446	33	0 36	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13170	13200	Kreyenhagen	cc	no	2 98	1 34	13 25	1 10	441	0 09	445	37	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13200	13230	Kreyenhagen	cc	no	2 46	0 84	9 49	0 61	439	0 08	386	25	0 30	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13230	13260	Undesignated	cc	no	2 34	0 77	8 45	0 80	444	0 08	361	34	--	Ka
X	26	West Cont BLC #2	04029769130000	-119 84430	35 60342	13260	13290	Undesignated	cc	no	1 24	0 49	3 69	0 72	427	0 12	298	58	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10652	10653	Kreyenhagen	cc	no	2 84	1 23	9 13	0 75	436	0 12	321	26	0 38	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10797	10799	Kreyenhagen	cc	no	2 71	1 00	8 56	0 86	439	0 10	316	32	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10926	10935	Kreyenhagen	cc	no	2 36	0 84	8 88	0 86	437	0 09	376	36	0 42	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10937	10948	Kreyenhagen	cc	no	1 94	0 62	6 30	0 77	440	0 09	325	40	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10955	10963	Kreyenhagen	cc	no	0 79	0 15	0 75	0 72	438	0 17	95	91	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10963	10970	Kreyenhagen	cc	no	3 16	1 14	12 46	1 03	438	0 08	394	33	0 56	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10968	10976	Kreyenhagen	cc	no	2 84	0 80	10 98	0 92	439	0 07	387	32	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10976	10987	Kreyenhagen	cc	no	2 64	0 90	9 70	0 85	438	0 08	367	32	0 41	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10987	10998	Kreyenhagen	cc	no	2 29	0 96	8 12	1 06	438	0 11	355	46	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	10998	11007	Kreyenhagen	cc	no	3 02	1 15	13 68	1 46	439	0 08	453	48	0 45	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11007	11021	Kreyenhagen	cc	no	2 92	1 13	11 96	1 31	437	0 09	410	45	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11021	11036	Kreyenhagen	cc	no	3 89	1 56	16 06	0 66	442	0 09	413	17	0 42	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11036	11050	Kreyenhagen	cc	no	4 63	1 30	19 26	0 90	442	0 06	416	19	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11065	11066	Kreyenhagen	cc	no	2 99	1 50	12 77	1 03	443	0 11	427	34	0 39	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11167	11178	Kreyenhagen	cc	no	3 76	1 17	18 06	0 74	441	0 06	480	20	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11256	11265	Kreyenhagen	cc	no	2 55	0 46	4 63	0 56	442	0 09	182	22	0 35	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11358	11366	Kreyenhagen	cc	no	3 22	1 45	10 62	1 29	439	0 12	330	40	0 37	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11422	11425	Kreyenhagen	cc	no	1 87	0 63	3 20	0 57	441	0 16	171	30	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11525	11534	Kreyenhagen	cc	no	6 13	1 52	29 17	0 93	440	0 05	476	15	0 33	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11614	11617	Kreyenhagen	cc	no	2 69	0 47	5 21	0 44	442	0 08	194	16	--	Ka

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11690	11692	Kreyenhagen	cc	no	3 80	1 07	12 65	0 54	440	0 08	333	14	0 29	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11711	11718	Kreyenhagen	cc	no	2 86	0 54	7 91	0 60	442	0 06	277	21	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11775	11783	Kreyenhagen	cc	no	3 31	0 81	8 60	0 85	443	0 09	260	26	0 40	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11783	11792	Kreyenhagen	cc	no	3 38	1 06	11 44	0 88	444	0 08	338	26	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11792	11802	Kreyenhagen	cc	no	3 71	0 97	9 85	0 84	446	0 09	265	23	0 40	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11803	11812	Kreyenhagen	cc	no	3 23	0 77	6 14	0 77	445	0 11	190	24	--	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11821	11830	Kreyenhagen	cc	no	--	0 87	5 70	0 72	451	0 13	--	--	0 40	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11830	11840	Kreyenhagen	cc	no	3 66	0 70	8 05	0 75	444	0 08	220	20	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11885	11893	Kreyenhagen	cc	no	2 65	0 59	4 16	0 55	446	0 12	157	21	0 45	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11901	11911	Kreyenhagen	cc	no	2 83	0 59	4 54	0 44	449	0 12	160	16	--	Ka
X	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11911	11921	Kreyenhagen	cc	no	3 04	0 61	7 55	0 56	446	0 07	248	18	0 41	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11921	11927	Undesignated	cc	no	2 93	0 39	7 42	0 23	447	0 05	253	8	--	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11936	11947	Undesignated	co	no	2 73	0 60	6 56	0 46	447	0 08	240	17	0 37	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11956	11965	Undesignated	co	no	0 96	0 08	0 46	0 05	441	0 15	48	5	--	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	11997	12011	Undesignated	co	no	0 76	0 07	0 29	0 01	--	0 19	38	1	0 67	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	12011	12022	Undesignated	co	no	0 66	0 03	0 16	--	368	0 16	24	--	--	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	12022	12032	Undesignated	co	no	0 69	0 05	0 23	0 26	--	0 18	33	38	0 63	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	12044	12058	Undesignated	co	no	0 77	0 01	0 14	0 31	404	0 07	18	40	--	Ka
	27	Chevron 73-30V	04031002340000	-119 95322	35 90116	12132	12141	Undesignated	co	no	0 78	--	0 04	0 29	--	--	5	37	0 61	Ka
X	28	Chevron 678X	04031202390000	-119 82556	36 0218	11300	11320	Antelope	cc	no	0 56	0 09	0 60	0 73	419	0 13	107	130	--	Ka
X	28	Chevron 678X	04031202390000	-119 82556	36 0218	11340	11360	Antelope	cc	no	0 75	0 14	1 12	1 90	430	0 11	149	253	--	Ka
X	28	Chevron 678X	04031202390000	-119 82556	36 0218	11420	11440	Antelope	cc	no	0 83	0 02	0 64	0 72	430	0 03	77	87	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	11600	11620	Undesignated	cc	no	1 00	0 03	0 63	0 40	426	0 05	63	40	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	11640	11660	Undesignated	cc	no	1 01	0 06	1 18	0 71	432	0 05	117	70	0 36	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	11700	11720	Undesignated	cc	no	0 67	0 05	0 52	1 21	424	0 09	78	181	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	12260	12280	Undesignated	cc	no	1 17	0 07	0 50	0 76	423	0 12	43	65	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	12380	12400	Undesignated	cc	no	0 20	0 07	0 66	0 60	428	0 10	330	300	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	12740	12760	Undesignated	cc	no	1 30	0 09	0 86	0 79	424	0 09	66	61	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	12780	12800	Undesignated	cc	no	1 02	0 18	1 23	1 39	424	0 13	121	136	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	13460	13480	Undesignated	cc	no	4 37	1 62	20 80	1 31	426	0 07	476	30	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	13480	13500	Undesignated	cc	no	2 59	1 17	12 63	1 19	425	0 08	488	46	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	13600	13620	Undesignated	cc	no	1 47	0 76	7 07	0 92	428	0 10	481	63	--	Ka
	28	Chevron 678X	04031202390000	-119 82556	36 0218	13640	13660	Undesignated	cc	no	0 85	0 34	2 44	0 87	430	0 12	287	102	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	9240	9330	Antelope	cc	no	2 04	0 02	1 38	1 17	423	0 01	68	57	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	9420	9510	Antelope	cc	no	1 86	0 03	4 23	0 72	423	0 01	227	39	0 35	Ka
	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12120	12150	Undesignated	cc	no	0 46	0 01	1 06	0 34	423	0 01	230	74	0 30	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12430	12450	Kreyenhagen	cc	no	1 04	0 01	1 71	0 49	425	0 01	164	47	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12450	12480	Kreyenhagen	cc	no	0 81	--	0 82	0 58	425	--	101	72	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12480	12510	Kreyenhagen	cc	no	0 75	0 05	0 77	0 63	426	0 06	103	84	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12510	12540	Kreyenhagen	cc	no	0 69	0 02	0 78	0 57	425	0 02	113	83	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12540	12570	Kreyenhagen	cc	no	1 73	0 25	8 21	0 66	424	0 03	475	38	0 30	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12570	12600	Kreyenhagen	cc	no	2 07	0 08	3 64	0 98	425	0 02	176	47	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12600	12630	Kreyenhagen	cc	no	3 41	0 24	15 80	1 19	421	0 01	463	35	--	Ka

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12630	12660	Kreyenhagen	cc	no	2 85	0 20	12 62	1 27	421	0 02	443	45	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12660	12690	Kreyenhagen	cc	no	2 90	0 09	8 38	1 47	423	0 01	289	51	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12690	12720	Kreyenhagen	cc	no	3 46	0 21	12 51	1 47	421	0 02	362	42	0 31	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12720	12750	Kreyenhagen	cc	no	2 27	0 07	4 69	1 52	426	0 01	207	67	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12750	12780	Kreyenhagen	cc	no	2 12	0 11	6 48	0 97	422	0 02	306	46	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12780	12810	Kreyenhagen	cc	no	2 06	0 08	7 02	1 20	422	0 01	341	58	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12810	12840	Kreyenhagen	cc	no	2 07	0 15	7 73	0 94	422	0 02	373	45	0 31	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12840	12870	Kreyenhagen	cc	no	2 23	0 10	7 57	1 25	422	0 01	339	56	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12870	12900	Kreyenhagen	cc	no	2 16	0 08	6 04	1 45	423	0 01	280	67	--	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12900	12920	Kreyenhagen	cc	no	2 36	0 10	6 14	1 70	424	0 02	260	72	0 36	Ka
X	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	12920	12950	Kreyenhagen	cc	no	1 31	0 05	2 54	0 86	424	0 02	194	66	--	Ka
	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	13120	13150	Undesignated	cc	no	1 56	0 02	1 74	0 77	425	0 01	112	49	--	Ka
	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	13180	13210	Undesignated	cc	no	1 46	0 04	3 42	1 04	425	0 01	234	71	0 37	Ka
	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	13240	13270	Undesignated	cc	no	1 31	0 04	1 93	0 99	426	0 02	147	76	--	Ka
	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	13480	13510	Undesignated	cc	no	1 04	0 03	2 12	0 70	426	0 01	204	67	0 35	Ka
	29	J G Boswell 31-1	04031202960000	-119 73999	36 06124	13660	13690	Undesignated	cc	no	1 22	0 01	0 63	1 01	430	0 02	52	83	--	Ka
X	30	Conoco West Lake 36-1	04031202980000	-119 87068	36 05965	13292	13292	Kreyenhagen	co	no	1 50	0 96	5 80	1 02	--	0 14	387	68	0 20	Ka
X	30	Conoco West Lake 36-1	04031202980000	-119 87068	36 05965	13300	13300	Kreyenhagen	co	no	3 06	2 40	18 80	1 60	--	0 11	614	52	0 47	Ka
X	30	Conoco West Lake 36-1	04031202980000	-119 87068	36 05965	13306	13306	Kreyenhagen	co	no	3 00	2 51	21 78	1 31	--	0 10	726	44	--	Ka
X	30	Conoco West Lake 36-1	04031202980000	-119 87068	36 05965	13318	13318	Kreyenhagen	co	no	3 81	2 47	22 20	2 41	--	0 10	583	63	0 45	Ka
	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7125	7133	Reef Ridge	cc	no	0 48	0 11	0 25	0 55	426	0 31	52	115	0 50	G/W
	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7222	7230	Reef Ridge	cc	no	0 72	0 14	0 44	0 42	421	0 24	61	58	0 75	G/W
	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7348	7358	Reef Ridge	cc	no	1 72	0 34	0 82	0 87	402	0 29	48	51	0 79	G/W
	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7468	7470	Reef Ridge	cc	no	1 47	0 49	0 87	0 90	402	0 36	59	61	0 87	G/W
	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7470	7478	Reef Ridge	cc	no	1 43	0 27	0 66	0 81	402	0 29	46	57	--	G/W
	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7555	7560	Reef Ridge	cc	no	1 59	0 29	1 12	0 71	403	0 21	70	45	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7560	7566	Antelope	cc	no	1 50	0 55	1 02	0 87	402	0 35	68	58	1 10	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7566	7574	Antelope	cc	no	1 42	0 44	1 31	0 54	402	0 25	92	59	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7608	7616	Antelope	cc	no	2 41	0 61	3 12	0 89	408	0 16	129	37	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7672	7680	Antelope	cc	no	3 10	0 81	5 03	0 81	410	0 14	162	26	0 95	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7676	7704	Antelope	cc	no	2 68	0 84	5 72	0 72	409	0 13	213	27	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7765	7773	Antelope	cc	no	7 76	2 23	34 78	2 04	407	0 06	448	26	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7765	7773	Antelope	cc	no	1 82	0 84	7 10	0 36	409	0 11	390	20	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7773	7781	Antelope	cc	no	4 69	1 15	13 60	1 45	408	0 08	290	31	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7794	7802	Antelope	cc	no	7 13	1 79	30 06	1 98	409	0 06	422	28	0 87	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7805	7810	Antelope	cc	no	5 85	1 99	22 19	1 40	409	0 08	379	24	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7868	7876	Antelope	cc	no	9 31	2 63	37 71	2 33	411	0 07	405	25	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7898	7914	Antelope	cc	no	2 33	1 14	10 74	0 50	411	0 10	461	22	0 61	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7952	7960	Antelope	cc	no	2 39	0 71	6 56	0 97	415	0 10	274	41	0 86	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	7985	7993	Antelope	cc	no	2 48	0 72	8 42	0 52	412	0 08	340	21	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8033	8041	Antelope	cc	no	4 59	1 18	17 12	1 17	414	0 06	373	26	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8057	8065	Antelope	cc	no	0 37	0 14	1 16	0 37	426	0 11	314	100	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8073	8089	Antelope	cc	no	3 26	1 19	14 01	0 75	418	0 08	430	23	--	G/W

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8073	8098	Antelope	cc	no	3 46	1 58	14 02	0 68	408	0 10	405	20	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8089	8098	Antelope	cc	no	6 24	1 73	25 17	1 42	414	0 06	403	23	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8106	8114	Antelope	cc	no	6 20	2 26	29 04	1 23	412	0 07	468	20	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8145	8154	Antelope	cc	no	9 16	2 69	42 54	1 92	411	0 06	464	21	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8154	8162	Antelope	cc	no	4 43	1 74	20 72	0 86	411	0 08	468	19	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8168	8174	Antelope	cc	no	0 87	0 32	2 46	0 82	418	0 12	283	94	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8239	8247	Antelope	cc	no	4 87	1 05	18 65	1 39	414	0 05	383	29	0 90	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8284	8292	Antelope	cc	no	1 98	0 39	4 27	0 60	415	0 08	216	30	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8340	8348	Antelope	cc	no	1 89	0 54	6 83	0 73	427	0 07	361	39	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8368	8378	Antelope	cc	no	2 26	0 63	7 30	0 78	412	0 08	323	35	0 91	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8411	8419	Antelope	cc	no	1 59	0 32	4 15	0 63	420	0 07	261	40	0 93	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8481	8487	Antelope	cc	no	1 29	0 35	3 05	0 55	427	0 10	236	43	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8561	8569	Antelope	cc	no	0 39	0 10	0 21	0 35	408	0 32	54	90	1 30	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8561	8569	Antelope	cc	no	0 98	0 23	2 08	0 52	428	0 10	212	53	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8593	8601	Antelope	cc	no	0 93	0 25	2 41	0 32	427	0 09	259	34	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8658	8666	Antelope	cc	no	1 23	0 21	2 81	0 79	432	0 07	228	64	0 90	G/W
	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8697	8705	Antelope	cc	no	--	--	--	--	--	--	--	--	0 97	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8697	8709	Antelope	cc	no	1 27	0 23	2 80	0 69	431	0 08	220	54	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8757	8765	Antelope	cc	no	1 63	0 41	4 21	0 57	427	0 09	258	35	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8798	8806	Antelope	cc	no	1 78	0 43	5 41	0 58	426	0 07	304	33	0 94	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8847	8855	Antelope	cc	no	7 21	1 37	31 95	2 03	415	0 04	443	28	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8871	8876	Antelope	cc	no	1 40	0 27	2 05	0 79	412	0 12	146	56	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8871	8876	Antelope	cc	no	7 45	1 37	32 63	2 03	416	0 04	438	27	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8893	8901	Antelope	cc	no	0 78	0 16	1 19	0 52	428	0 12	153	67	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8917	8925	Antelope	cc	no	1 05	0 38	3 21	0 42	427	0 11	306	40	--	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	8959	8967	Antelope	cc	no	0 73	0 22	1 54	0 35	422	0 13	211	48	1 05	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	9059	9068	Antelope	cc	no	1 03	0 26	2 45	0 35	425	0 10	238	34	0 96	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	9100	9120	Antelope	cc	no	0 89	0 22	2 12	0 35	426	0 09	238	39	1 08	G/W
X	31	Chevron Morris 1	04107001120100	-119 44473	35 79634	9194	9202	Antelope	cc	no	6 31	1 32	29 36	1 90	416	0 04	465	30	1 01	G/W
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	16800	16830	Undesignated	cc	no	0 81	0 33	2 81	0 39	440	0 11	345	48	0 77	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	16860	16890	Undesignated	cc	no	0 72	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	16920	16950	Undesignated	cc	no	0 76	0 18	2 60	0 37	444	0 06	343	49	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	16980	17010	Undesignated	cc	no	0 74	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	17040	17070	Undesignated	cc	no	0 87	0 29	3 44	0 69	443	0 08	394	79	0 87	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	17100	17130	Undesignated	cc	no	0 84	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	17160	17190	Undesignated	cc	no	0 94	0 35	3 49	0 51	446	0 09	371	54	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	17220	17250	Undesignated	cc	no	0 96	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	17280	17310	Undesignated	cc	no	0 79	0 25	3 01	0 47	443	0 08	383	60	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	17340	17370	Undesignated	cc	no	0 34	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	18540	18550	Undesignated	cc	no	0 70	0 37	2 25	0 43	436	0 14	319	61	0 91	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	18580	18590	Undesignated	cc	no	0 52	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	18900	18910	Undesignated	cc	no	0 29	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	18960	18970	Undesignated	cc	no	0 26	0 21	0 88	0 37	448	0 19	333	140	--	An

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	19020	19030	Undesignated	cc	no	0 81	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	19080	19090	Undesignated	cc	no	0 94	0 35	3 06	0 60	447	0 10	326	64	0 90	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	19140	19150	Undesignated	cc	no	0 43	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	19200	19210	Undesignated	cc	no	0 26	0 21	0 84	0 39	446	0 20	326	151	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	19250	19260	Undesignated	cc	no	0 26	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	19860	19870	Undesignated	cc	no	0 46	0 22	1 25	0 37	444	0 15	273	81	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	19920	19930	Undesignated	cc	no	0 66	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	19970	19980	Undesignated	cc	no	0 26	0 17	0 62	0 37	445	0 22	241	144	0 91	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	20530	20540	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	20590	20600	Undesignated	cc	no	0 76	0 26	0 96	0 38	449	0 21	126	50	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	20650	20660	Undesignated	cc	no	0 58	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	20710	20720	Undesignated	cc	no	0 49	0 09	0 30	0 09	448	0 23	62	18	0 95	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	20770	20780	Undesignated	cc	no	0 62	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	20830	20840	Undesignated	cc	no	0 40	0 19	0 48	0 15	446	0 28	120	37	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	20890	20900	Undesignated	cc	no	1 39	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	20950	20960	Undesignated	cc	no	0 74	0 47	3 01	0 73	446	0 14	407	99	1 05	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	21010	21020	Undesignated	cc	no	1 75	--	--	--	--	--	--	--	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	21070	21080	Undesignated	cc	no	1 88	0 59	3 35	0 38	442	0 15	178	20	--	An
	32	East Lost Hills 9 ST1	04030185660000	-119 67290	35 61432	21090	21100	Undesignated	cc	no	2 51	0 79	4 42	0 50	443	0 15	176	20	1 08	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	13990	14020	Undesignated	cc	no	1 30	0 67	4 51	0 22	442	0 13	347	17	0 66	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	14050	14080	Undesignated	cc	no	1 31	--	--	--	--	--	--	--	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	14110	14140	Undesignated	cc	no	1 50	0 43	5 52	0 29	441					

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18090	18100	Kreyenhagen	cc	no	1 49	0 53	1 69	0 43	442	0 24	113	29	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18300	18310	Kreyenhagen	cc	no	2 47	--	--	--	--	--	--	--	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18360	18370	Kreyenhagen	cc	no	2 62	0 87	2 23	1 21	435	0 28	85	46	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18420	18430	Kreyenhagen	cc	no	1 41	--	--	--	--	--	--	--	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18480	18490	Kreyenhagen	cc	no	0 68	0 35	1 22	0 43	443	0 22	178	63	0 92	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18540	18550	Kreyenhagen	cc	no	0 64	--	--	--	--	--	--	--	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18600	18610	Kreyenhagen	cc	no	0 40	0 33	0 92	0 36	440	0 26	230	90	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18660	18670	Kreyenhagen	cc	no	0 46	--	--	--	--	--	--	--	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18720	18730	Kreyenhagen	cc	no	0 28	0 24	0 90	0 50	443	0 21	325	180	1 02	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18780	18790	Kreyenhagen	cc	no	1 37	--	--	--	--	--	--	--	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18840	18850	Kreyenhagen	cc	no	1 08	0 44	1 39	0 48	445	0 24	129	45	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18900	18910	Kreyenhagen	cc	no	0 41	--	--	--	--	--	--	--	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	18960	18970	Kreyenhagen	cc	no	0 53	0 33	1 34	0 43	446	0 20	251	80	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	19020	19030	Kreyenhagen	cc	no	0 40	--	--	--	--	--	--	--	--	An
X	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	19080	19090	Kreyenhagen	cc	no	0 29	0 20	0 77	0 38	441	0 21	263	130	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	19700	19710	Undesignated	cc	no	0 14	--	--	--	--	--	--	--	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	19760	19770	Undesignated	cc	no	0 43	0 22	1 16	0 31	444	0 16	268	72	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	19820	19830	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	19880	19890	Undesignated	cc	no	0 32	0 22	1 24	0 29	439	0 15	386	90	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	19940	19950	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20000	20010	Undesignated	cc	no	0 76	0 31	1 43	0 33	444	0 18	188	43	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20060	20070	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20120	20130	Undesignated	cc	no	0 15	0 18	0 29	0 13	438	0 38	197	88	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20180	20190	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20240	20250	Undesignated	cc	no	0 24	0 25	0 53	0 10	423	0 32	221	42	1 15	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20300	20310	Undesignated	cc	no	0 26	--	--	--	--	--	--	--	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20360	20370	Undesignated	cc	no	0 56	0 32	0 72	0 14	433	0 31	128	25	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20420	20430	Undesignated	cc	no	0 42	--	--	--	--	--	--	--	--	An
	33	Pyramid Hills 1-9 ST2	04031204230000	-120 03238	35 85060	20480	20490	Undesignated	cc	no	0 44	0 24	0 62	0 12	444	0 28	142	27	--	An
	34	Union Bravo 1	04019217460000	-120 30113	36 58513	6770	6770	Undesignated	co	no	0 70	0 04	0 86	--	415	0 04	123	--	--	Lu
X	34	Union Bravo 1	04019217460000	-120 30113	36 58513	7160	7160	Kreyenhagen	co	no	4 11	0 30	18 54	--	416	0 02	451	--	--	Lu
X	34	Union Bravo 1	04019217460000	-120 30113	36 58513	8540	8540	Moreno	co	no	1 30	0 02	1 42	--	432	0 01	109	--	--	Lu
X	34	Union Bravo 1	04019217460000	-120 30113	36 58513	8960	8960	Moreno	co	no	1 94	0 09	2 75	--	428	0 03	142	--	--	Lu
X	34	Union Bravo 1	04019217460000	-120 30113	36 58513	9440	9440	Moreno	co	no	1 83	0 13	3 48	--	429	0 04	190	--	--	Lu
X	34	Union Bravo 1	04019217460000	-120 30113	36 58513	9830	9830	Moreno	co	no	1 19	0*17	1 41	--	428	0 05	118	--	--	Lu
	34	Union Bravo 1	04019217460000	-120 30113	36 58513	10220	10220	Undesignated	co	no	1 03	0 06	1 03	--	429	0 06	100	--	--	Lu
	34	Union Bravo 1	04019217460000	-120 30113	36 58513	10760	10760	Undesignated	co	no	0 69	0 05	1 10	--	432	0 04	159	--	--	Lu
	34	Union Bravo 1	04019217460000	-120 30113	36 58513	11240	11240	Undesignated	co	no	1 08	0 16	1 25	--	429	0 11	116	--	--	Lu
	34	Union Bravo 1	04019217460000	-120 30113	36 58513	11570	11570	Undesignated	co	no	1 04	0 12	1 08	--	430	0 10	104	--	--	Lu
	34	Union Bravo 1	04019217460000	-120 30113	36 58513	11900	11900	Undesignated	co	no	1 09	0 13	1 24	--	428	0 09	114	--	--	Lu
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12030	12060	Undesignated	cc	no	1 34	0 11	2 26	0 32	444	0 05	169	24	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12150	12180	Undesignated	cc	no	1 14	0 10	2 10	0 38	444	0 05	184	33	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12420	12450	Antelope	cc	no	2 44	0 11	4 03	0 55	442	0 03	165	23	--	An

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12540	12570	Antelope	cc	no	1 60	0 14	4 09	0 33	447	0 03	256	21	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12630	12660	Antelope	cc	no	1 66	0 09	4 82	0 33	445	0 02	290	20	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12750	12780	Antelope	cc	no	1 70	0 11	3 68	0 49	448	0 03	216	29	0 56	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12840	12870	Antelope	cc	no	1 66	0 10	3 70	0 33	443	0 03	223	20	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	12930	12960	Antelope	cc	no	1 43	0 12	3 68	0 37	445	0 03	257	26	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13020	13050	Antelope	cc	no	1 64	0 10	3 54	0 34	443	0 03	216	21	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13110	13140	Antelope	cc	no	1 91	0 11	3 52	0 54	446	0 03	184	28	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13230	13260	Antelope	cc	no	2 00	0 22	3 74	0 42	448	0 06	187	21	0 57	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13320	13350	Antelope	cc	no	2 66	0 24	4 27	0 47	448	0 05	161	18	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13410	13440	Antelope	cc	no	2 01	0 08	2 40	0 41	448	0 03	119	20	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13500	13530	Antelope	cc	no	1 37	0 19	2 08	0 31	447	0 08	152	23	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13590	13620	Antelope	cc	no	1 75	0 20	2 30	0 55	445	0 08	131	31	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13680	13710	Antelope	cc	no	0 67	0 14	0 90	0 34	439	0 13	134	51	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13770	13800	Antelope	cc	no	1 47	0 16	1 99	0 38	446	0 07	135	26	0 61	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	13980	14010	Antelope	cc	no	0 46	0 13	0 95	0 37	438	0 12	207	80	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	14100	14130	Antelope	cc	no	0 87	0 12	1 36	0 33	443	0 08	156	38	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	14250	14280	Antelope	cc	no	0 99	0 15	1 36	0 24	446	0 10	137	24	0 67	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	14340	14370	Antelope	cc	no	1 28	0 14	1 48	0 30	446	0 09	116	23	--	An
X	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	14520	14550	Antelope	cc	no	0 27	0 11	0 79	0 37	438	0 12	293	137	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	14670	14700	Undesignated	cc	no	1 29	0 14	1 21	0 44	441	0 10	94	34	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	14760	14790	Undesignated	cc	no	1 09	0 22	1 69	0 55	439	0 12	155	50	0 68	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	14940	14970	Undesignated	cc	no	0 85	0 16	1 35	0 45	438	0 11	159	53	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15000	15030	Undesignated	cc	no	0 88	0 78	0 91	0 32	444	0 46	103	36	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15120	15150	Undesignated	cc	no	0 16	0 07	0 09	0 28	423	0 44	56	175	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15210	15240	Undesignated	cc	no	0 22	0 15	0 17	0 08	422	0 47	77	36	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15300	15330	Undesignated	cc	no	0 17	0 06	0 13	0 15	430	0 32	76	88	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15390	15420	Undesignated	cc	no	0 41	0 33	0 42	0 07	453	0 44	102	17	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15450	15480	Undesignated	cc	no	0 13	0 09	0 12	0 13	430	0 43	92	100	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15540	15570	Undesignated	cc	no	2 40	0 57	2 57	0 36	448	0 18	107	15	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15690	15720	Undesignated	cc	no	0 78	0 31	0 87	0 30	429	0 26	112	38	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15780	15810	Undesignated	cc	no	2 33	0 30	1 62	0 44	440	0 16	70	19	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15870	15900	Undesignated	cc	no	1 52	0 14	1 61	0 26	451	0 08	106	17	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	15990	16020	Undesignated	cc	no	1 69	0 12	1 30	0 52	448	0 08	77	31	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16050	16080	Undesignated	cc	no	0 89	0 27	0 48	0 15	417	0 36	54	17	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16140	16170	Undesignated	cc	no	1 14	0 52	0 62	0 27	412	0 46	54	24	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16260	16290	Undesignated	cc	no	3 87	0 24	3 56	0 60	448	0 06	92	16	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16410	16440	Undesignated	cc	no	2 92	0 41	2 23	0 51	442	0 16	76	17	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16500	16530	Undesignated	cc	no	2 03	0 23	2 26	0 47	440	0 09	111	23	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16620	16650	Undesignated	cc	no	3 17	0 58	2 31	0 36	446	0 20	73	11	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16695	16695	Undesignated	cc	no	2 88	0 80	2 00	0 02	474	0 29	69	1	1 14	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16710	16740	Undesignated	cc	no	0 89	0 42	1 39	0 53	448	0 23	156	60	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16800	16830	Undesignated	cc	no	1 97	0 56	2 05	0 35	446	0 21	104	18	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	16890	16920	Undesignated	cc	no	2 19	0 32	2 16	0 92	440	0 13	99	42	1 15	An

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	17190	17220	Undesignated	cc	no	2 53	0 62	2 07	0 27	443	0 23	82	11	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	17310	17340	Undesignated	cc	no	1 93	0 25	1 45	0 34	438	0 15	75	18	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	17400	17430	Undesignated	cc	no	1 50	0 32	1 43	0 23	433	0 18	95	15	1 19	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	17447	17447	Undesignated	cc	no	0 93	0 59	0 70	0 10	481	0 46	75	11	1 01	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	17490	17520	Undesignated	cc	no	1 99	0 35	1 54	0 32	382	0 19	77	16	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	17820	17850	Undesignated	cc	no	2 22	0 67	1 02	0 26	380	0 40	46	12	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	17895	17895	Undesignated	cc	no	1 58	0 66	0 94	0 01	475	0 41	59	1	1 22	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	17940	17970	Undesignated	cc	no	2 56	0 56	2 26	0 35	416	0 20	88	14	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	18090	18120	Undesignated	cc	no	2 66	0 22	1 68	0 70	430	0 12	63	26	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	18180	18210	Undesignated	cc	no	2 53	0 26	1 34	0 52	433	0 16	53	21	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	18270	18300	Undesignated	cc	no	1 70	0 49	1 62	0 25	401	0 23	95	15	1 23	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	18360	18390	Undesignated	cc	no	1 68	0 47	2 00	0 23	436	0 19	119	14	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	18450	18480	Undesignated	cc	no	2 98	0 51	2 67	0 57	437	0 16	90	19	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	18840	18870	Undesignated	cc	no	0 44	0 38	0 76	0 25	397	0 33	173	57	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	18990	19020	Undesignated	cc	no	1 98	0 55	2 24	0 27	383	0 20	113	14	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19080	19110	Undesignated	cc	no	2 03	0 69	1 93	0 45	433	0 26	95	22	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19170	19200	Undesignated	cc	no	1 73	0 41	1 80	0 34	483	0 19	104	20	1 26	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19260	19290	Undesignated	cc	no	2 77	0 22	2 26	0 39	439	0 09	82	14	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19350	19380	Undesignated	cc	no	2 63	0 24	2 52	0 55	438	0 09	96	21	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19440	19470	Undesignated	cc	no	2 22	0 61	2 89	0 58	395	0 17	130	26	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19530	19560	Undesignated	cc	no	2 78	0 47	2 91	1 17	440	0 14	105	42	1 36	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19620	19650	Undesignated	cc	no	2 23	0 54	1 64	0 54	382	0 25	74	24	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19740	19770	Undesignated	cc	no	1 80	0 63	2 18	0 40	398	0 22	121	22	--	An
	35	Thunderball 954-35B	04030186880000	-119 47172	35 18838	19830	19840	Undesignated	cc	no	1 94	0 74	2 13	0 45	394	0 26	110	23	--	An
	36	363X	04019007020000	-120 32388	36 27841	2260	2260	Undesignated	co	no	1 39	0 31	3 43	--	422	0 08	247	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	2640	2640	Undesignated	co	no	1 04	0 29	1 53	--	423	0 16	147	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	3000	3000	Undesignated	co	no	1 59	0 34	2 74	--	425	0 11	172	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	3460	3460	Moreno	co	no	2 80	0 36	8 52	--	422	0 04	304	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	4540	4540	Undesignated	co	no	1 65	0 06	3 02	--	426	0 02	183	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	4920	4920	Undesignated	co	no	1 20	0 13	2 01	--	423	0 06	167	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	5320	5320	Undesignated	co	no	1 05	0 04	1 12	--	425	0 03	107	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	9980	10000	Undesignated	cc	no	1 16	0 25	1 24	--	431	0 17	107	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	10180	10220	Undesignated	cc	no	1 10	0 14	1 27	--	429	0 10	115	--	--	Lu
	36	363X	04019007020000	-120 32388	36 27841	10381	10390	Undesignated	cc	no	0 95	0 35	0 77	--	431	0 31	81	--	--	Lu
	37	341-11P	04031203180000	-120 09247	36 03370	no data													--	
	38	27-7Q	04031004090000	-120 07086	36 02474	no data													--	
X	39	Ferry 1-2	04019202450000	-120 09575	36 38788	9670	9670	Kreyenhagen	co	no	3 64	2 97	17 79	--	417	0 14	489	--	--	Lu
X	39	Ferry 1-2	04019202450000	-120 09575	36 38788	9870	9870	Kreyenhagen	co	no	4 39	2 61	21 84	--	415	0 11	497	--	--	Lu
X	39	Ferry 1-2	04019202450000	-120 09575	36 38788	10050	10050	Kreyenhagen	co	no	2 74	1 26	13 14	--	418	0 09	480	--	--	Lu
X	39	Ferry 1-2	04019202450000	-120 09575	36 38788	10170	10170	Kreyenhagen	co	no	3 37	1 57	18 66	--	413	0 08	554	--	--	Lu
X	39	Ferry 1-2	04019202450000	-120 09575	36 38788	10790	10790	Moreno	co	no	2 67	2 47	9 90	--	420	0 20	371	--	--	Lu
X	39	Ferry 1-2	04019202450000	-120 09575	36 38788	11000	11000	Moreno	co	no	1 32	1 32	3 94	--	422	0 25	298	--	--	Lu
X	39	Ferry 1-2	04019202450000	-120 09575	36 38788	11180	11180	Moreno	co	no	3 30	5 88	15 77	--	418	0 27	478	--	--	Lu

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	39	Ferry 1-2	04019202450000	-120 09575	36 38788	11290	11290	Undesignated	co	no	3 13	--	--	--	--	--	--	--	--	Lu
	40	74-19	04019063810000	-120 37635	36 35076	2320	2340	Undesignated	cc	no	2 26	0 16	4 13	--	425	0 04	183	--	--	Lu
	40	74-19	04019063810000	-120 37635	36 35076	2900	2923	Undesignated	cc	no	0 51	0 02	0 26	--	433	0 07	51	--	--	Lu
	40	74-19	04019063810000	-120 37635	36 35076	3900	3918	Undesignated	cc	no	0 60	0 01	0 22	--	374	0 04	37	--	--	Lu
	40	74-19	04019063810000	-120 37635	36 35076	4067	4093	Undesignated	cc	no	0 29	--	0 04	--	434	----	14	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	300	330	Undesignated	cc	no	1 24	--	0 13	--	451	----	10	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	630	660	Undesignated	cc	no	1 24	0 22	1 65	--	419	0 12	133	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	930	960	Undesignated	cc	no	1 44	0 03	1 05	--	425	0 03	73	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	1170	1200	Undesignated	cc	no	0 58	1 01	0 17	--	481	0 06	29	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	1500	1530	Undesignated	cc	no	0 66	4 36	16 01	--	419	0 21	--	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	1800	1830	Undesignated	cc	no	0 95	0 01	0 33	--	423	0 03	35	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	2100	2130	Undesignated	cc	no	0 50	0 02	0 44	--	399	0 04	88	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	2340	2370	Undesignated	cc	no	0 65	0 01	0 19	--	451	0 05	29	--	--	Lu
	41	Cates 18-1	04019211010000	-120 38229	36 27485	2670	2700	Undesignated	cc	no	0 49	--	0 04	--	462	----	8	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	3460	3460	Undesignated	cc	no	1 24	0 01	1 24	--	426	0 01	100	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	3720	3720	Undesignated	cc	no	0 73	0 01	0 39	--	410	0 02	53	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	4082	4082	Undesignated	cc	no	1 09	0 01	0 66	--	427	0 01	61	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	4389	4389	Undesignated	cc	no	1 02	0 02	0 56	--	427	0 03	55	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	4650	4650	Undesignated	cc	no	1 86	0 11	2 23	--	426	0 05	120	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	4930	4930	Undesignated	cc	no	1 51	0 04	1 28	--	424	0 03	115	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	5210	5210	Undesignated	cc	no	1 60	0 05	1 64	--	426	0 03	102	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	5530	5530	Undesignated	cc	no	1 71	0 05	1 91	--	429	0 03	112	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	5845	5845	Undesignated	cc	no	2 70	0 21	5 68	--	425	0 04	210	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	6065	6065	Undesignated	cc	no	2 35	0 41	4 16	--	427	0 09	177	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	6430	6430	Undesignated	cc	no	1 59	0 08	1 60	--	430	0 05	101	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	6580	6580	Undesignated	cc	no	1 88	0 09	2 05	--	430	0 04	109	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	6945	6945	Undesignated	cc	no	1 98	0 06	2 17	--	430	0 03	110	--	--	Lu
	42	Glenn 1	04019061240000	-120 54955	36 51866	7115	7115	Undesignated	cc	no	1 88	0 08	2 01	--	428	0 04	107	--	--	Lu
	43	61X-17A	04019214330000	-120 36112	36 28139	460	490	Undesignated	cc	no	1 53	0 02	0 54	--	423	0 04	35	--	--	Lu
	43	61X-17A	04019214330000	-120 36112	36 28139	940	970	Undesignated	cc	no	1 54	0 03	1 47	--	428	0 02	95	--	--	Lu
	43	61X-17A	04019214330000	-120 36112	36 28139	1180	1210	Undesignated	cc	no	1 08	--	0 03	--	435	--	3	--	--	Lu
	43	61X-17A	04019214330000	-120 36112	36 28139	1270	1300	Undesignated	cc	no	1 55	0 03	1 26	--	428	0 02	81	--	--	Lu
X	43	61X-17A	04019214330000	-120 36112	36 28139	1750	1780	Kreyenhagen	cc	no	1 71	0 01	0 60	--	425	0 02	35	--	--	Lu
X	43	61X-17A	04019214330000	-120 36112	36 28139	1900	1930	Kreyenhagen	cc	no	1 03	--	0 15	--	423	--	15	--	--	Lu
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5263	5273	Antelope	co	no	2 78	0 27	3 28	1 09	412	0 08	118	39	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5273	5283	Antelope	co	no	2 37	0 30	4 26	1 14	414	0 07	180	48	0 51	Ka
	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5300	5306	Antelope	co	no	--	0 45	7 50	1 19	420	0 06	--	--	--	Ka
	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5330	5343	Antelope	co	no	--	0 25	3 96	0 97	420	0 06	--	--	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5343	5357	Antelope	co	no	2 76	0 31	4 33	0 93	415	0 07	157	34	--	Ka
	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5414	5434	Antelope	co	no	--	0 38	5 41	0 72	417	0 07	--	--	--	Ka
	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5457	5474	Antelope	co	no	--	0 49	8 16	1 07	416	0 06	--	--	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5472	5491	Antelope	co	no	3 96	0 85	18 29	1 58	414	0 04	462	40	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5584	5594	Antelope	co	no	6 64	1 01	24 04	2 46	411	0 04	362	37	0 32	Ka

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5928	5940	Antelope	co	no	1 58	0 19	3 07	0 63	427	0 06	194	40	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	5940	5954	Antelope	co	no	1 55	0 15	1 28	0 48	418	0 10	83	31	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6100	6112	Antelope	co	no	1 78	0 17	2 63	0 31	429	0 06	148	17	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6143	6143	Antelope	co	no	1 93	0 27	4 68	0 39	429	0 05	242	20	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6152	6152	Antelope	co	no	1 98	0 36	5 00	0 27	432	0 07	253	14	0 32	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6218	6218	Antelope	co	no	1 71	0 18	3 09	0 07	429	0 06	181	4	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6231	6231	Antelope	co	no	1 73	0 29	3 85	0 43	427	0 07	223	25	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6240	6240	Antelope	co	no	1 79	0 23	4 46	0 29	428	0 05	249	16	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6244	6262	Antelope	co	no	1 86	0 22	4 01	0 45	431	0 05	216	24	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6270	6270	Antelope	co	no	1 20	0 02	1 01	0 10	427	0 02	84	8	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6280	6280	Antelope	co	no	1 15	0 03	1 15	0 15	429	0 03	100	13	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6290	6292	Antelope	co	no	1 39	0 05	1 76	0 21	431	0 03	127	15	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6307	6307	Antelope	co	no	1 01	0 02	0 70	0 08	422	0 03	69	8	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6663	6677	Antelope	co	no	1 77	0 07	1 64	0 80	421	0 04	93	45	--	Ka
X	44	Chevron 7-26Q	04031005270000	-120 00212	35 98059	6698	6709	Antelope	co	no	1 21	0 05	0 98	0 56	427	0 05	81	46	0 33	Ka
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2700	2730	Antelope	cc	no	3 20	5 05	13 08	1 35	408	0 28	409	42	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2730	2760	Antelope	cc	no	3 04	8 11	12 41	1 30	414	0 40	408	43	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2760	2790	Antelope	cc	no	3 40	5 92	13 96	1 77	409	0 30	411	52	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2790	2820	Antelope	cc	no	3 18	5 17	13 35	1 74	405	0 28	420	55	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2820	2850	Antelope	cc	no	2 88	4 50	12 09	1 89	408	0 27	420	66	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2850	2880	Antelope	cc	no	3 25	8 48	13 33	1 33	411	0 39	410	41	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2880	2910	Antelope	cc	no	3 39	7 31	14 70	1 46	410	0 33	434	43	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2910	2940	Antelope	cc	no	3 43	6 83	14 74	1 89	411	0 32	430	55	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2940	2970	Antelope	cc	no	3 49	7 28	15 21	1 69	406	0 32	436	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	2970	3000	Antelope	cc	no	3 53	7 03	15 54	1 70	408	0 31	440	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3000	3030	Antelope	cc	no	3 61	5 07	15 86	1 74	409	0 24	439	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3030	3060	Antelope	cc	no	3 48	5 05	14 68	1 69	408	0 26	422	49	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3060	3090	Antelope	cc	no	3 58	3 87	15 58	2 00	407	0 20	435	56	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3090	3120	Antelope	cc	no	3 27	3 69	14 29	2 26	407	0 21	437	69	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3120	3150	Antelope	cc	no	3 66	4 43	16 01	1 91	405	0 22	437	52	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3150	3180	Antelope	cc	no	3 13	2 13	12 93	1 86	412	0 14	413	59	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3180	3210	Antelope	cc	no	2 77	1 95	11 16	1 63	410	0 15	403	59	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3210	3240	Antelope	cc	no	2 76	1 60	10 63	1 68	411	0 13	385	61	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3240	3270	Antelope	cc	no	2 86	1 41	11 30	1 80	413	0 11	395	63	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3270	3300	Antelope	cc	no	2 90	1 44	11 76	1 79	413	0 11	406	62	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3300	3330	Antelope	cc	no	2 93	1 15	11 17	1 73	414	0 09	381	59	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3330	3360	Antelope	cc	no	3 02	1 46	11 87	1 75	412	0 11	393	58	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3360	3390	Antelope	cc	no	3 57	1 76	13 50	2 01	412	0 12	378	56	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3390	3420	Antelope	cc	no	2 02	1 83	15 81	2 25	412	0 10	783	111	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3420	3450	Antelope	cc	no	3 85	2 29	15 55	2 20	411	0 13	404	57	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3450	3480	Antelope	cc	no	3 52	1 94	14 73	1 99	408	0 12	418	57	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3480	3510	Antelope	cc	no	3 51	1 86	15 13	1 67	409	0 11	431	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3510	3540	Antelope	cc	no	3 06	1 62	13 38	1 62	412	0 11	437	53	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3540	3570	Antelope	cc	no	3 42	1 64	14 59	1 63	410	0 10	427	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3570	3600	Antelope	cc	no	3 58	1 51	15 57	1 65	413	0 09	435	46	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3600	3630	Antelope	cc	no	3 24	1 49	13 96	1 54	412	0 10	431	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3630	3660	Antelope	cc	no	3 78	1 63	16 46	1 69	409	0 09	435	45	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3660	3690	Antelope	cc	no	3 10	1 61	13 50	1 37	407	0 11	435	44	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3690	3720	Antelope	cc	no	3 03	1 84	13 51	1 38	406	0 12	446	46	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3720	3750	Antelope	cc	no	2 68	1 49	11 23	1 26	410	0 12	419	47	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3750	3780	Antelope	cc	no	2 64	1 59	12 59	1 27	409	0 11	477	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3780	3810	Antelope	cc	no	2 47	1 27	11 90	1 26	412	0 10	482	51	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3810	3840	Antelope	cc	no	2 62	1 35	12 77	1 07	410	0 10	487	41	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3840	3870	Antelope	cc	no	2 24	1 23	11 12	1 13	411	0 10	496	50	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3870	3900	Antelope	cc	no	2 35	1 16	11 41	1 26	412	0 09	486	54	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3900	3930	Antelope	cc	no	2 21	1 03	10 65	1 15	414	0 09	482	52	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3930	3960	Antelope	cc	no	2 27	1 13	11 27	1 14	414	0 09	496	50	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3960	3990	Antelope	cc	no	2 23	1 20	11 57	1 17	412	0 09	519	52	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	3990	4020	Antelope	cc	no	2 99	1 32	15 01	1 32	411	0 08	502	44	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4020	4050	Antelope	cc	no	3 57	1 28	17 80	1 44	415	0 07	499	40	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4050	4080	Antelope	cc	no	3 49	1 46	17 70	1 54	414	0 08	507	44	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4080	4110	Antelope	cc	no	3 10	1 27	15 26	1 39	415	0 08	492	45	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4110	4140	Antelope	cc	no	2 38	0 99	11 47	1 18	413	0 08	482	50	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4140	4170	Antelope	cc	no	2 71	0 93	12 58	1 05	408	0 07	464	39	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4170	4200	Antelope	cc	no	2 79	1 01	12 40	0 99	410	0 08	444	35	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4200	4230	Antelope	cc	no	2 90	0 96	13 70	0 96	411	0 07	472	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4230	4260	Antelope	cc	no	3 15	0 99	15 04	1 02	412	0 06	477	32	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4260	4290	Antelope	cc	no	2 88	0 98	14 11	0 97	408	0 06	490	34	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4290	4320	Antelope	cc	no	2 64	0 82	12 65	0 88	410	0 06	479	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4320	4350	Antelope	cc	no	2 86	0 90	13 43	0 98	410	0 06	470	34	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4350	4380	Antelope	cc	no	2 95	1 10	14 36	0 97	409	0 07	487	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4380	4410	Antelope	cc	no	2 83	0 73	13 04	0 97	412	0 05	461	34	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4410	4440	Antelope	cc	no	3 04	0 94	14 95	0 99	411	0 06	492	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4440	4470	Antelope	cc	no	3 32	0 80	15 40	0 95	413	0 05	464	29	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4470	4500	Antelope	cc	no	3 81	1 12	18 46	1 04	409	0 06	485	27	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4500	4530	Antelope	cc	no	3 53	0 93	16 16	1 01	413	0 05	458	29	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4530	4560	Antelope	cc	no	3 40	0 92	15 83	0 95	412	0 05	466	28	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4560	4590	Antelope	cc	no	2 75	0 52	9 10	0 87	416	0 05	331	32	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4590	4620	Antelope	cc	no	2 98	0 69	13 22	0 88	414	0 05	444	30	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4620	4650	Antelope	cc	no	3 29	0 76	14 33	1 02	414	0 05	436	31	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4650	4680	Antelope	cc	no	2 27	0 41	7 75	0 81	415	0 05	341	36	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4680	4710	Antelope	cc	no	1 58	0 28	4 25	0 76	419	0 06	269	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4710	4740	Antelope	cc	no	1 93	0 42	6 58	0 73	416	0 06	341	38	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4740	4770	Antelope	cc	no	1 96	0 34	4 93	0 86	418	0 06	252	44	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4770	4800	Antelope	cc	no	2 26	0 41	6 16	0 88	417	0 06	273	39	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4800	4830	Antelope	cc	no	2 82	0 53	9 46	0 88	415	0 05	335	31	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4830	4860	Antelope	cc	no	2 49	56 00	8 58	0 84	415	0 87	345	34	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4860	4890	Antelope	cc	no	2 18	0 50	7 15	0 73	415	0 07	328	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4890	4920	Antelope	cc	no	2 60	0 47	9 12	0 85	412	0 05	351	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4920	4950	Antelope	cc	no	2 45	0 36	5 75	2 30	417	0 06	235	94	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4950	4980	Antelope	cc	no	2 14	0 34	6 02	0 70	417	0 05	281	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	4980	5010	Antelope	cc	no	1 81	0 38	6 13	0 60	416	0 06	339	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5010	5040	Antelope	cc	no	1 90	0 29	5 29	0 59	417	0 05	278	31	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5040	5070	Antelope	cc	no	2 03	0 38	6 50	0 65	414	0 06	320	32	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5070	5100	Antelope	cc	no	2 38	0 35	7 36	0 90	414	0 05	309	38	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5100	5130	Antelope	cc	no	2 52	0 39	7 75	0 93	415	0 05	308	37	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5130	5160	Antelope	cc	no	2 36	0 27	4 20	1 03	420	0 06	178	44	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5160	5190	Antelope	cc	no	1 78	0 21	3 10	0 73	421	0 06	174	41	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5190	5220	Antelope	cc	no	2 32	0 39	6 86	0 77	416	0 05	296	33	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5220	5250	Antelope	cc	no	2 46	0 35	8 18	0 86	415	0 04	333	35	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5250	5280	Antelope	cc	no	2 80	0 46	8 75	0 82	414	0 05	313	29	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5280	5310	Antelope	cc	no	2 73	0 50	9 59	0 80	415	0 05	351	29	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5310	5340	Antelope	cc	no	2 70	0 46	9 06	0 83	416	0 05	336	31	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5340	5370	Antelope	cc	no	2 41	0 44	8 09	0 78	417	0 05	336	32	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5370	5400	Antelope	cc	no	1 82	0 25	3 33	0 73	422	0 07	183	40	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5400	5430	Antelope	cc	no	2 09	0 37	6 53	0 52	418	0 05	312	25	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5430	5460	Antelope	cc	no	1 67	0 34	4 15	0 43	421	0 08	249	26	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5460	5490	Antelope	cc	no	2 51	0 59	10 07	0 60	414	0 06	401	24	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5490	5520	Antelope	cc	no	2 27	0 51	8 83	0 60	418	0 05	389	26	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5520	5550	Antelope	cc	no	2 30	0 48	9 87	0 62	416	0 05	429	27	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5550	5580	Antelope	cc	no	2 62	0 53	11 28	0 63	415	0 04	431	24	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5580	5610	Antelope	cc	no	2 03	0 46	7 69	0 57	418	0 06	379	28	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5610	5640	Antelope	cc	no	3 45	0 97	19 02	0 77	412	0 05	551	22	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5640	5670	Antelope	cc	no	2 97	0 80	15 44	0 61	416	0 05	520	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5670	5700	Antelope	cc	no	3 10	0 73	14 83	0 66	417	0 05	478	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5700	5730	Antelope	cc	no	3 58	0 84	18 09	0 75	417	0 04	505	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5730	5760	Antelope	cc	no	2 56	0 57	10 50	0 61	417	0 05	410	24	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5760	5790	Antelope	cc	no	3 19	0 87	15 83	0 67	418	0 05	496	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5790	5820	Antelope	cc	no	3 54	0 88	17 99	0 69	415	0 05	508	19	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5820	5850	Antelope	cc	no	3 76	1 51	23 55	0 86	418	0 06	626	23	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5850	5880	Antelope	cc	no	4 44	1 74	27 61	0 69	419	0 06	622	16	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5880	5910	Antelope	cc	no	2 93	0 96	16 52	0 59	420	0 05	564	20	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5910	5940	Antelope	cc	no	3 16	1 28	17 90	0 62	419	0 07	566	20	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5940	5970	Antelope	cc	no	2 67	1 12	14 04	0 59	418	0 07	526	22	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	5970	6000	Antelope	cc	no	2 80	0 99	15 72	0 55	419	0 06	561	20	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6000	6030	Antelope	cc	no	2 85	0 94	16 51	0 62	418	0 05	579	22	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6030	6060	Antelope	cc	no	3 27	1 12	18 97	0 71	421	0 06	580	22	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6060	6090	Antelope	cc	no	3 09	1 00	17 92	0 54	420	0 05	580	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6090	6120	Antelope	cc	no	3 96	1 21	23 07	0 62	419	0 05	583	16	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6120	6150	Antelope	cc	no	2 91	0 72	14 87	0 63	418	0 05	511	22	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6150	6180	Antelope	cc	no	4 04	1 10	23 89	0 70	420	0 04	591	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6180	6210	Antelope	cc	no	3 65	0 82	18 36	0 89	417	0 04	503	24	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6210	6240	Antelope	cc	no	3 75	0 83	20 38	0 70	417	0 04	543	19	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6240	6270	Antelope	cc	no	3 61	0 90	19 12	0 73	420	0 04	530	20	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6270	6300	Antelope	cc	no	3 54	0 75	17 82	0 77	416	0 04	503	22	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6300	6330	Antelope	cc	no	4 20	0 98	22 60	0 77	419	0 04	538	18	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6330	6360	Antelope	cc	no	3 86	1 24	21 88	0 73	417	0 05	567	19	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6360	6390	Antelope	cc	no	2 63	1 11	26 31	1 27	419	0 04	1000	48	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6390	6420	Antelope	cc	no	6 08	1 01	31 32	1 25	419	0 03	515	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6420	6450	Antelope	cc	no	4 19	0 70	19 22	1 13	420	0 04	459	27	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6450	6480	Antelope	cc	no	3 91	1 07	22 23	0 81	420	0 05	569	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6480	6510	Antelope	cc	no	4 46	1 63	24 37	1 08	423	0 06	546	24	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6510	6540	Antelope	cc	no	4 28	1 66	23 70	0 79	422	0 07	554	18	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6540	6570	Antelope	cc	no	3 09	1 43	16 53	0 75	421	0 08	535	24	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6570	6600	Antelope	cc	no	2 96	2 01	16 63	0 68	423	0 11	562	23	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6600	6630	Antelope	cc	no	4 33	3 00	25 42	0 73	422	0 11	587	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6630	6660	Antelope	cc	no	3 88	2 85	22 87	0 77	423	0 11	589	20	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6660	6690	Antelope	cc	no	3 93	2 58	23 35	0 68	421	0 10	594	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6690	6720	Antelope	cc	no	4 42	2 70	26 63	0 75	422	0 09	602	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6720	6750	Antelope	cc	no	4 50	2 77	26 45	0 77	421	0 09	588	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6750	6780	Antelope	cc	no	4 75	2 32	28 24	0 79	423	0 08	595	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6780	6810	Antelope	cc	no	4 93	2 10	26 36	0 89	422	0 07	535	18	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6810	6840	Antelope	cc	no	3 14	1 79	15 93	0 78	423	0 10	507	25	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6840	6870	Antelope	cc	no	4 19	2 89	23 00	0 82	422	0 11	549	20	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6870	6900	Antelope	cc	no	3 49	2 61	18 69	0 73	423	0 12	536	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6900	6930	Antelope	cc	no	3 25	2 35	17 63	0 69	423	0 12	542	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6930	6960	Antelope	cc	no	3 63	2 64	20 06	0 75	423	0 12	553	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6960	6990	Antelope	cc	no	4 23	3 12	22 56	0 84	424	0 12	533	20	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	6990	7020	Antelope	cc	no	3 99	2 58	22 21	0 75	423	0 10	557	19	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7020	7050	Antelope	cc	no	5 64	2 71	28 68	0 98	422	0 09	509	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7050	7080	Antelope	cc	no	6 85	3 28	36 14	0 98	420	0 08	528	14	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7080	7110	Antelope	cc	no	7 44	3 43	38 81	1 01	421	0 08	522	14	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7110	7140	Antelope	cc	no	7 10	3 29	38 12	1 04	421	0 08	537	15	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7140	7170	Antelope	cc	no	7 71	3 15	42 59	1 04	422	0 07	552	13	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7170	7200	Antelope	cc	no	8 11	3 14	45 57	1 19	421	0 06	562	15	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7200	7230	Antelope	cc	no	7 39	2 47	38 02	1 39	422	0 06	514	19	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7230	7260	Antelope	cc	no	6 40	2 95	34 19	1 18	423	0 08	534	18	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7260	7290	Antelope	cc	no	4 96	2 73	28 78	0 90	421	0 09	580	18	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7290	7320	Antelope	cc	no	6 23	3 55	36 36	1 02	421	0 09	584	16	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7320	7350	Antelope	cc	no	5 16	2 79	29 28	0 97	423	0 09	567	19	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7350	7380	Antelope	cc	no	4 44	2 76	26 04	0 92	422	0 10	586	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7380	7410	Antelope	cc	no	5 08	2 84	29 33	0 97	424	0 09	577	19	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7410	7440	Antelope	cc	no	5 29	3 62	29 23	0 90	425	0 11	553	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7440	7470	Antelope	cc	no	4 09	2 69	24 38	0 94	422	0 10	596	23	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7470	7500	Antelope	cc	no	4 34	2 56	24 88	0 90	424	0 09	573	21	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7500	7530	Antelope	cc	no	4 42	2 39	26 44	0 87	422	0 08	598	20	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7530	7560	Antelope	cc	no	5 50	2 32	32 33	0 95	420	0 07	588	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7560	7590	Antelope	cc	no	6 39	2 56	37 00	1 07	421	0 06	579	17	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7590	7620	Antelope	cc	no	6 52	1 57	31 92	1 43	423	0 05	490	22	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7620	7650	Antelope	cc	no	5 59	2 18	32 26	1 09	421	0 06	577	19	--	Ja
X	45	Midway Sunset Well #801	04029833080000	-119 58421	35 27017	7650	7670	Antelope	cc	no	5 35	2 45	30 53	1 05	422	0 07	571	20	--	Ja
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	3521	3521	Kreyenhagen	co	no	2 24	1 22	3 09	2 55	389	0 28	138	114	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	3576	3576	Kreyenhagen	co	no	2 91	0 91	7 86	3 15	414	0 10	270	108	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	3624	3624	Kreyenhagen	co	no	1 69	0 72	3 38	2 07	409	0 18	200	122	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	3723	3723	Kreyenhagen	co	no	2 07	0 76	5 67	2 32	421	0 12	274	112	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	3826	3826	Kreyenhagen	co	no	2 50	0 82	7 73	2 54	423	0 10	309	102	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	4068	4068	Kreyenhagen	co	no	3 30	0 81	7 18	3 89	407	0 10	218	118	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	4278	4278	Kreyenhagen	co	no	3 88	0 78	10 46	3 56	410	0 07	270	92	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	4316	4316	Kreyenhagen	co	no	3 15	0 53	9 97	4 09	413	0 05	317	130	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	4387	4387	Kreyenhagen	co	no	1 55	0 23	2 40	2 02	423	0 09	155	130	--	Mi
	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	4413	4413	Kreyenhagen	co	no	2 34	0 41	7 71	1 90	422	0 05	329	81	--	Mi
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5507	5507	Moreno	co	no	1 01	0 55	3 69	0 39	410	0 13	365	39	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5520	5520	Moreno	co	no	1 01	0 02	1 32	0 93	431	0 01	131	92	0 48	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5527	5527	Moreno	co	no	1 05	0 51	3 31	0 76	410	0 13	315	72	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5543	5543	Moreno	co	no	1 38	1 13	4 15	1 19	389	0 21	301	86	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5556	5556	Moreno	co	no	1 54	0 71	3 69	1 18	410	0 16	240	77	0 55	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5563	5563	Moreno	co	no	1 59	0 20	2 63	1 30	427	0 07	165	82	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5589	5589	Moreno	co	no	1 32	0 21	1 83	1 35	415	0 10	139	102	0 51	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5596	5596	Moreno	co	no	1 02	0 03	1 63	1 07	450	0 02	160	105	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5602	5602	Moreno	co	no	1 40	0 08	1 81	1 42	432	0 04	129	101	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5612	5612	Moreno	co	no	1 28	0 01	2 37	1 15	439	0 00	185	90	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5632	5632	Moreno	co	no	1 43	0 12	2 15	1 28	420	0 05	150	90	0 71	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5638	5638	Moreno	co	no	0 76	0 06	2 76	0 73	450	0 02	363	96	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5645	5645	Moreno	co	no	1 34	0 05	1 49	1 49	421	0 03	111	111	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5648	5648	Moreno	co	no	1 48	0 07	1 55	1 38	426	0 04	105	93	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5655	5655	Moreno	co	no	0 48	0 01	0 70	0 85	490	0 01	146	177	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5658	5658	Moreno	co	no	0 97	0 10	1 53	1 05	431	0 06	158	108	0 48	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5678	5678	Moreno	co	no	1 32	0 04	1 33	1 32	424	0 03	101	100	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5681	5681	Moreno	co	no	1 31	0 01	1 00	1 31	426	0 01	76	100	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5701	5701	Moreno	co	no	1 43	0 04	1 04	1 52	440	0 04	73	106	0 55	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5707	5707	Moreno	co	no	1 46	0 08	1 76	1 40	422	0 04	121	96	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5714	5714	Moreno	co	no	0 85	0 01	2 00	1 32	423	0 00	235	155	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5727	5727	Moreno	co	no	1 46	0 42	2 19	1 30	407	0 16	150	89	0 46	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5730	5730	Moreno	co	no	1 13	0 01	0 73	1 45	420	0 01	65	128	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5763	5763	Moreno	co	no	1 40	0 10	2 07	0 98	424	0 05	148	70	0 54	Mc

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5802	5802	Moreno	co	no	1 48	0 03	1 74	1 15	415	0 02	118	78	0 51	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5812	5812	Moreno	co	no	0 67	0 01	0 91	0 50	521	0 01	136	75	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5832	5832	Moreno	co	no	1 54	0 03	0 90	0 61	431	0 03	58	40	0 59	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5871	5871	Moreno	co	no	1 40	0 04	0 97	0 67	422	0 04	69	48	0 59	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5881	5881	Moreno	co	no	1 48	0 08	1 72	0 61	408	0 04	116	41	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5894	5894	Moreno	co	no	1 11	0 01	1 17	0 40	506	0 01	105	36	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5901	5901	Moreno	co	no	1 26	0 02	0 49	1 31	416	0 04	39	104	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5907	5907	Moreno	co	no	1 13	0 03	0 88	1 04	427	0 03	78	92	0 55	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5940	5940	Moreno	co	no	--	--	--	--	--	--	--	--	0 69	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5947	5947	Moreno	co	no	0 81	0 01	0 42	0 57	427	0 02	52	70	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5950	5950	Moreno	co	no	1 25	0 01	0 77	0 71	429	0 01	62	57	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5953	5953	Moreno	co	no	1 14	0 04	0 66	0 62	427	0 06	58	54	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5953	5953	Moreno	co	no	1 15	0 02	0 67	0 83	427	0 03	58	72	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5970	5970	Moreno	co	no	1 13	0 04	0 76	0 70	429	0 05	67	62	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5976	5976	Moreno	co	no	0 88	0 02	0 48	0 51	425	0 04	55	58	0 76	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5979	5979	Moreno	co	no	1 20	0 03	1 03	0 77	429	0 03	86	64	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5986	5986	Moreno	co	no	0 89	0 01	0 42	0 63	424	0 02	47	71	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5989	5989	Moreno	co	no	1 07	0 03	0 59	0 93	428	0 05	55	87	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5989	5989	Moreno	co	no	0 89	0 03	0 39	0 67	423	0 07	44	75	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5993	5993	Moreno	co	no	0 87	0 02	0 40	0 68	422	0 05	46	78	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5996	5996	Moreno	co	no	0 97	0 05	0 53	0 81	419	0 09	55	84	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5999	5999	Moreno	co	no	0 90	0 03	0 47	0 65	419	0 06	52	72	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	5999	5999	Moreno	co	no	1 05	0 02	0 43	1 31	419	0 04	41	125	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6002	6002	Moreno	co	no	0 88	0 02	0 42	0 53	426	0 05	48	60	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6006	6006	Moreno	co	no	1 16	0 04	0 87	0 84	419	0 04	75	72	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6009	6009	Moreno	co	no	1 15	0 11	1 02	1 01	429	0 10	89	88	0 60	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6012	6012	Moreno	co	no	1 01	0 10	0 85	1 10	428	0 11	84	109	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6019	6019	Moreno	co	no	1 29	0 08	1 10	0 89	429	0 07	85	69	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6022	6022	Moreno	co	no	1 34	0 05	1 37	0 88	429	0 04	102	66	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6025	6025	Moreno	co	no	1 02	0 03	0 80	0 82	412	0 04	78	80	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6029	6029	Moreno	co	no	0 93	0 05	0 67	0 97	421	0 07	72	104	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6029	6029	Moreno	co	no	1 27	0 08	1 02	0 82	426	0 07	80	65	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6032	6032	Moreno	co	no	1 16	0 16	0 89	0 97	419	0 15	77	84	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6032	6032	Moreno	co	no	1 18	0 12	0 95	1 04	415	0 11	81	88	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6035	6035	Moreno	co	no	1 29	0 14	1 11	1 02	428	0 11	86	79	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6038	6038	Moreno	co	no	1 32	0 09	1 29	0 99	429	0 07	98	75	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6038	6038	Moreno	co	no	1 32	0 07	0 95	0 96	421	0 07	72	73	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6045	6045	Moreno	co	no	1 32	0 10	1 24	1 19	418	0 07	94	90	0 80	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6045	6045	Moreno	co	no	1 12	0 05	0 77	0 81	428	0 06	69	72	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6045	6045	Moreno	co	no	1 16	0 04	0 71	0 78	429	0 05	61	67	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6048	6048	Moreno	co	no	1 20	0 13	1 02	1 01	420	0 11	85	84	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6052	6052	Moreno	co	no	1 51	0 06	1 51	1 07	428	0 04	100	71	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6065	6065	Moreno	co	no	1 07	0 03	0 45	1 10	411	0 06	42	103	--	Mc

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6068	6068	Moreno	co	no	1 09	0 01	0 37	1 13	417	0 03	34	104	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6075	6075	Moreno	co	no	1 49	0 05	1 76	1 15	424	0 03	118	77	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6075	6075	Moreno	co	no	1 29	0 03	0 58	1 37	414	0 05	45	106	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6078	6078	Moreno	co	no	1 18	0 05	0 65	1 16	409	0 07	55	98	0 72	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6081	6081	Moreno	co	no	1 34	0 04	0 75	1 29	417	0 05	56	96	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6084	6084	Moreno	co	no	1 26	0 04	0 64	1 18	416	0 06	51	94	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6088	6088	Moreno	co	no	1 31	0 05	0 53	0 75	418	0 09	40	57	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6091	6091	Moreno	co	no	1 40	0 06	0 73	1 46	409	0 08	52	104	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6091	6091	Moreno	co	no	1 23	0 04	0 50	1 18	415	0 07	41	96	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6094	6094	Moreno	co	no	1 24	0 06	0 70	1 29	409	0 08	56	104	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6098	6098	Moreno	co	no	1 45	0 06	1 51	0 92	426	0 04	104	63	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6101	6101	Moreno	co	no	1 37	0 10	0 76	1 47	410	0 12	55	107	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6104	6104	Moreno	co	no	1 32	0 06	0 61	0 94	420	0 09	46	71	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6107	6107	Moreno	co	no	1 71	0 07	2 02	0 84	429	0 03	118	49	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6107	6107	Moreno	co	no	1 57	0 07	1 16	1 15	411	0 06	74	73	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6111	6111	Moreno	co	no	1 41	0 04	0 65	0 89	419	0 06	46	63	0 80	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6114	6114	Moreno	co	no	0 92	0 03	0 62	0 48	426	0 05	67	52	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6117	6117	Moreno	co	no	1 30	0 06	0 62	0 98	414	0 09	48	75	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6120	6120	Moreno	co	no	1 00	0 01	0 50	0 65	425	0 02	50	65	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6124	6124	Moreno	co	no	1 58	0 11	1 16	1 12	408	0 09	73	71	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6127	6127	Moreno	co	no	1 28	0 04	0 66	0 88	415	0 06	52	69	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6130	6130	Moreno	co	no	1 51	0 09	1 17	1 10	414	0 07	77	73	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6134	6134	Moreno	co	no	1 72	0 05	2 18	0 70	426	0 02	127	41	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6137	6137	Moreno	co	no	1 73	0 10	1 46	1 60	409	0 06	84	92	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6140	6140	Moreno	co	no	1 46	0 08	1 11	1 12	408	0 07	76	77	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6140	6140	Moreno	co	no	1 43	0 07	0 80	1 04	411	0 08	56	73	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6150	6150	Moreno	co	no	1 66	0 06	2 20	0 85	427	0 03	133	51	0 69	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6157	6157	Moreno	co	no	1 81	0 21	2 95	1 11	419	0 07	163	61	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6166	6166	Moreno	co	no	1 91	0 25	4 24	1 32	418	0 06	222	69	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6173	6173	Moreno	co	no	1 99	0 13	3 73	1 20	424	0 03	187	60	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6183	6183	Moreno	co	no	1 70	0 18	3 01	1 38	420	0 06	177	81	0 62	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6193	6193	Moreno	co	no	2 82	0 29	6 39	2 08	420	0 04	227	74	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6202	6202	Moreno	co	no	1 79	0 15	3 24	1 45	427	0 04	181	81	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6209	6209	Moreno	co	no	1 94	0 18	3 50	1 51	425	0 05	180	78	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6219	6219	Moreno	co	no	2 17	0 23	4 39	1 62	420	0 05	202	75	0 66	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6225	6225	Moreno	co	no	2 55	0 26	7 45	1 21	411	0 03	292	47	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6235	6235	Moreno	co	no	2 20	0 36	6 77	0 96	417	0 05	308	44	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6239	6239	Moreno	co	no	2 35	0 26	6 04	1 23	419	0 04	257	52	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6242	6242	Moreno	co	no	2 25	0 24	6 43	1 17	418	0 04	286	52	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6245	6245	Moreno	co	no	3 04	0 57	10 98	1 73	409	0 05	361	57	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6248	6248	Moreno	co	no	2 69	0 44	8 52	1 57	409	0 05	317	58	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6255	6255	Moreno	co	no	2 34	0 25	6 92	1 30	420	0 03	296	56	0 58	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6268	6268	Moreno	co	no	2 03	0 24	5 65	1 28	412	0 04	278	63	--	Mc

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6268	6268	Moreno	co	no	2 33	0 41	7 03	1 41	420	0 06	302	61	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6271	6271	Moreno	co	no	3 00	0 26	6 23	1 54	421	0 04	208	51	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6275	6275	Moreno	co	no	2 70	0 24	6 24	1 67	415	0 04	231	62	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6284	6284	Moreno	co	no	3 23	0 34	7 21	2 09	416	0 05	223	65	0 63	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6288	6288	Moreno	co	no	3 18	0 22	6 60	2 00	416	0 03	208	63	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6294	6294	Moreno	co	no	2 68	0 24	4 63	1 96	421	0 05	173	73	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6301	6301	Moreno	co	no	2 75	0 28	5 38	1 84	416	0 05	196	67	0 53	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6426	6426	Moreno	co	no	2 46	0 30	5 94	1 28	421	0 05	241	52	0 71	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6439	6439	Moreno	co	no	2 22	0 25	5 41	1 68	424	0 04	244	76	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6448	6448	Moreno	co	no	3 81	0 30	7 44	1 95	419	0 04	195	51	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6455	6455	Moreno	co	no	2 17	0 21	4 99	1 90	420	0 04	230	88	0 70	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6465	6465	Moreno	co	no	2 78	0 31	7 53	2 23	419	0 04	271	80	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6475	6475	Moreno	co	no	2 54	0 21	6 72	1 81	420	0 03	265	71	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6491	6491	Moreno	co	no	3 09	0 29	8 73	2 10	418	0 03	283	68	0 81	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6494	6494	Moreno	co	no	2 95	0 23	7 95	1 93	417	0 03	269	65	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6494	6494	Moreno	co	no	1 74	0 14	3 99	1 25	421	0 03	229	72	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6498	6498	Moreno	co	no	1 90	0 19	5 16	1 35	421	0 04	272	71	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6504	6504	Moreno	co	no	2 38	0 23	6 21	1 67	420	0 04	261	70	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6508	6508	Moreno	co	no	2 24	0 41	6 55	1 87	413	0 06	292	83	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6517	6517	Moreno	co	no	2 74	0 21	6 52	1 92	420	0 03	238	70	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6521	6521	Moreno	co	no	2 63	0 29	6 16	1 92	415	0 04	234	73	0 76	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6527	6527	Moreno	co	no	2 48	0 20	5 07	1 83	418	0 04	204	74	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6547	6547	Moreno	co	no	2 24	0 15	5 24	1 56	419	0 03	234	70	0 67	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6560	6560	Moreno	co	no	2 34	0 17	5 19	1 57	422	0 03	222	67	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6560	6560	Moreno	co	no	3 23	0 34	9 42	2 33	412	0 03	292	72	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6567	6567	Moreno	co	no	3 64	0 36	11 20	2 65	417	0 03	308	73	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6573	6573	Moreno	co	no	3 22	0 25	8 12	2 44	419	0 03	252	76	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6576	6576	Moreno	co	no	3 88	0 21	6 60	1 70	416	0 03	170	44	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6576	6576	Moreno	co	no	2 19	0 20	5 77	1 66	415	0 03	263	76	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6580	6580	Moreno	co	no	3 35	0 27	10 36	2 35	418	0 03	309	70	0 57	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6583	6583	Moreno	co	no	2 86	0 26	9 27	2 20	420	0 03	324	77	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6590	6590	Moreno	co	no	2 84	0 18	7 96	1 21	420	0 02	280	43	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6593	6593	Moreno	co	no	3 42	0 35	11 40	1 62	418	0 03	333	47	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6599	6599	Moreno	co	no	2 74	0 39	8 54	1 49	415	0 04	312	54	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6603	6603	Moreno	co	no	2 67	0 28	8 47	1 39	413	0 03	317	52	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6606	6606	Moreno	co	no	2 30	0 15	5 68	1 20	421	0 03	247	52	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6612	6612	Moreno	co	no	2 80	0 31	8 76	1 37	420	0 03	313	49	0 60	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6619	6619	Moreno	co	no	2 85	0 29	7 03	1 54	418	0 04	247	54	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6629	6629	Moreno	co	no	2 89	0 29	5 20	1 77	413	0 05	180	61	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6635	6635	Moreno	co	no	3 26	0 48	10 30	1 68	413	0 04	316	52	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6642	6642	Moreno	co	no	3 27	0 31	9 90	1 79	419	0 03	303	55	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6649	6649	Moreno	co	no	3 95	0 51	10 64	2 40	411	0 05	269	61	0 66	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6658	6658	Moreno	co	no	2 55	0 23	5 97	1 34	419	0 04	234	53	--	Mc

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6668	6668	Moreno	co	no	2 35	0 19	5 03	1 42	419	0 04	214	60	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6678	6678	Moreno	co	no	2 61	0 20	6 11	1 42	425	0 03	234	54	0 74	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6698	6698	Moreno	co	no	3 02	0 17	6 35	1 64	423	0 03	210	54	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6704	6704	Moreno	co	no	2 91	0 19	6 70	1 70	418	0 03	230	58	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6711	6711	Moreno	co	no	2 66	0 18	5 59	1 60	421	0 03	210	60	0 80	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6750	6750	Moreno	co	no	3 33	0 20	5 94	1 86	417	0 03	178	56	0 73	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6760	6760	Moreno	co	no	2 43	0 28	4 16	1 59	412	0 06	171	65	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6773	6773	Moreno	co	no	2 36	0 19	2 89	1 39	416	0 06	122	59	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6783	6783	Moreno	co	no	2 91	0 50	5 29	1 68	410	0 09	182	58	0 75	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6793	6793	Moreno	co	no	2 43	0 48	4 71	1 56	407	0 09	194	64	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6799	6799	Moreno	co	no	2 69	0 24	6 96	1 50	413	0 03	259	56	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6822	6822	Moreno	co	no	2 90	0 25	5 27	1 54	414	0 05	182	53	0 52	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6829	6829	Moreno	co	no	2 87	0 32	4 90	1 77	413	0 06	171	62	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6839	6839	Moreno	co	no	3 54	0 35	6 28	2 32	413	0 05	177	66	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6849	6849	Moreno	co	no	3 37	0 23	5 42	1 93	414	0 04	161	57	0 53	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6881	6881	Moreno	co	no	2 58	0 20	5 50	1 48	425	0 04	213	57	0 60	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6891	6891	Moreno	co	no	3 30	0 22	5 91	2 04	414	0 04	179	62	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6898	6898	Moreno	co	no	2 63	0 12	5 99	1 32	422	0 02	228	50	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6918	6918	Moreno	co	no	3 22	0 27	8 89	1 66	422	0 03	276	52	0 56	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6934	6934	Moreno	co	no	3 91	0 44	12 91	2 24	412	0 03	330	57	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6947	6947	Moreno	co	no	3 03	0 18	9 04	1 50	422	0 02	298	50	0 56	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	6973	6973	Moreno	co	no	3 07	0 24	8 28	1 86	423	0 03	270	61	0 55	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7006	7006	Moreno	co	no	3 40	0 20	9 35	1 69	421	0 02	275	50	0 47	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7082	7082	Moreno	co	no	3 07	0 19	9 58	1 62	422	0 02	312	53	0 71	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7088	7088	Moreno	co	no	3 38	0 20	10 07	1 71	421	0 02	298	51	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7095	7095	Moreno	co	no	2 64	0 14	6 90	1 46	423	0 02	261	55	0 69	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7134	7134	Moreno	co	no	2 55	0 14	6 74	1 48	424	0 02	264	58	0 64	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7141	7141	Moreno	co	no	2 58	0 12	5 98	1 40	425	0 02	232	54	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7147	7147	Moreno	co	no	3 55	0 24	10 86	1 92	418	0 02	306	54	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7157	7157	Moreno	co	no	1 30	0 07	1 59	0 93	425	0 04	122	72	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7167	7167	Moreno	co	no	2 54	0 10	3 74	1 63	411	0 03	147	64	0 64	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7170	7170	Moreno	co	no	3 34	0 19	9 64	1 84	423	0 02	289	55	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7226	7226	Moreno	co	no	3 10	0 23	6 86	2 42	410	0 03	221	78	0 57	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7232	7232	Moreno	co	no	3 40	0 15	5 77	2 25	416	0 03	170	66	--	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7324	7324	Moreno	co	no	3 24	0 16	7 59	1 82	425	0 02	234	56	0 63	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7432	7432	Moreno	co	no	2 49	0 09	5 34	1 49	429	0 02	214	60	0 65	Mc
X	46	Cheney Ranch 1	04019001900000	-120 58321	36 68315	7478	7478	Moreno	co	no	1 96	0 11	0 75	1 63	425	0 13	38	83	--	Mc
	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4622	4622	Undesignated	co	no	0 59	0 01	0 13	0 64	421	0 07	22	108	0 34	Mc
	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4628	4628	Undesignated	co	no	0 83	0 02	0 05	0 53	420	0 29	6	64	0 48	Mc
	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4635	4635	Undesignated	co	no	0 63	0 01	0 02	0 41	418	0 33	3	65	0 38	Mc
	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4638	4638	Undesignated	co	no	0 77	0 03	0 02	0 45	419	0 60	3	58	0 69	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4664	4664	Moreno	co	no	2 56	0 11	5 06	1 23	421	0 02	198	48	0 39	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4667	4667	Moreno	co	no	2 49	0 13	4 49	1 30	421	0 03	180	52	0 50	Mc

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4677	4677	Moreno	co	no	2.36	0.12	4.13	1.49	421	0.03	175	63	0.36	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4684	4684	Moreno	co	no	2.00	0.08	3.08	1.13	422	0.03	154	57	0.50	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4690	4690	Moreno	co	no	3.20	0.21	8.91	1.25	417	0.02	278	39	0.52	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4697	4697	Moreno	co	no	2.93	0.21	7.57	1.08	418	0.03	258	37	0.45	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4710	4710	Moreno	co	no	2.91	0.25	8.74	1.00	415	0.03	300	34	0.59	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4730	4730	Moreno	co	no	3.71	0.24	10.88	1.39	417	0.02	293	37	0.37	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4749	4749	Moreno	co	no	5.26	0.83	20.85	1.79	408	0.04	396	34	0.49	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4772	4772	Moreno	co	no	5.83	0.88	24.56	2.03	408	0.03	421	35	0.34	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4789	4789	Moreno	co	no	6.34	0.92	26.02	2.15	409	0.03	410	34	0.61	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4808	4808	Moreno	co	no	7.27	1.10	32.42	2.56	408	0.03	446	35	0.53	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4825	4825	Moreno	co	no	5.38	0.63	20.60	2.07	410	0.03	383	38	0.60	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4848	4848	Moreno	co	no	2.66	0.07	4.94	1.66	424	0.01	186	62	0.35	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	4999	4999	Moreno	co	no	2.16	0.08	3.09	1.04	422	0.03	143	48	0.48	Mc
X	47	Magnet Fearon 2	04019003890000	-120 38205	36 18628	5120	5120	Moreno	co	no	2.05	0.04	2.01	0.97	424	0.02	98	47	0.45	Mc
X	48	Helm Unit 31-34	04019049140000	-120 11000	36 5012	8207	8207	Moreno	co	no	0.40	0.22	0.61	0.02	409	0.27	153	5	--	Mc
X	48	Helm Unit 31-34	04019049140000	-120 11000	36 5012	8216	8216	Moreno	co	no	0.41	0.19	0.49	0.02	408	0.28	120	5	--	Mc
X	48	Helm Unit 31-34	04019049140000	-120 11000	36 5012	8236	8236	Moreno	co	no	0.43	0.22	0.43	0.02	415	0.34	100	5	--	Mc
X	48	Helm Unit 31-34	04019049140000	-120 11000	36 5012	8285	8285	Moreno	co	no	0.31	0.17	0.27	0.02	420	0.39	87	6	--	Mc
X	48	Helm Unit 31-34	04019049140000	-120 11000	36 5012	8312	8312	Moreno	co	no	0.58	0.24	0.92	0.02	420	0.21	159	3	--	Mc
X	48	Helm Unit 31-34	04019049140000	-120 11000	36 5012	8334	8334	Moreno	co	no	1.37	0.81	1.33	0.07	420	0.38	97	5	--	Mc
X	48	Helm Unit 31-34	04019049140000	-120 11000	36 5012	8354	8354	Moreno	co	no	1.42	1.06	1.15	0.09	426	0.48	81	6	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2824	2824	Moreno	co	no	1.53	0.04	0.06	1.37	412	0.40	4	90	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2844	2844	Moreno	co	no	1.43	0.04	0.03	1.56	414	0.57	2	109	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2883	2883	Moreno	co	no	1.72	0.33	1.15	1.19	413	0.22	67	69	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2900	2900	Moreno	co	no	1.12	0.07	0.25	1.01	414	0.22	22	90	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2919	2919	Moreno	co	no	1.59	0.11	0.75	1.30	417	0.13	47	82	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2939	2939	Moreno	co	no	1.32	0.05	0.35	1.20	416	0.13	27	91	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2959	2959	Moreno	co	no	1.46	0.04	0.07	1.42	415	0.36	5	97	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2978	2978	Moreno	co	no	1.55	0.07	0.68	1.23	416	0.09	44	79	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	2995	2995	Moreno	co	no	1.97	0.11	0.69	1.86	390	0.14	35	94	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3014	3014	Moreno	co	no	1.42	0.08	0.72	1.19	418	0.10	51	84	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3034	3034	Moreno	co	no	1.35	0.11	0.86	1.06	415	0.11	64	79	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3054	3054	Moreno	co	no	1.55	0.19	1.69	1.05	414	0.10	109	68	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3086	3086	Moreno	co	no	1.85	0.14	1.88	1.57	417	0.07	102	85	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3106	3106	Moreno	co	no	3.25	0.36	5.72	2.35	415	0.06	176	72	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3126	3126	Moreno	co	no	2.75	0.43	4.52	2.12	413	0.09	164	77	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3146	3146	Moreno	co	no	2.54	0.40	3.30	2.17	415	0.11	130	85	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3165	3165	Moreno	co	no	2.90	0.40	4.04	2.43	416	0.09	139	84	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3185	3185	Moreno	co	no	2.85	0.40	4.58	1.80	415	0.08	161	63	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3205	3205	Moreno	co	no	2.71	0.30	3.34	1.79	416	0.08	123	66	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3247	3247	Moreno	co	no	3.06	0.39	4.06	1.87	414	0.09	133	61	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3267	3267	Moreno	co	no	1.81	0.08	0.41	1.40	401	0.16	23	77	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3287	3287	Moreno	co	no	1.96	0.10	0.51	1.56	403	0.16	26	80	--	Mc

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3313	3313	Moreno	co	no	2 16	0 10	0 52	1 71	388	0 16	24	79	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3349	3349	Moreno	co	no	2 16	0 15	0 95	1 06	417	0 14	44	49	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3369	3369	Moreno	co	no	1 58	0 16	1 01	1 15	418	0 14	64	73	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3385	3385	Moreno	co	no	2 06	0 11	0 64	1 60	391	0 15	31	78	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3401	3401	Moreno	co	no	2 03	0 18	2 74	1 24	415	0 06	135	61	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3421	3421	Moreno	co	no	2 89	0 24	5 14	1 96	417	0 04	178	68	--	Mc
X	49	Russ Hewitt 1	04019059780000	-120 76998	36 85642	3441	3441	Moreno	co	no	1 00	0 02	0 10	0 99	410	0 17	10	99	--	Mc
X	50	Ponte 1	04019060140000	-120 16376	36 77382	5346	5346	Moreno	co	no	0 68	0 05	0 14	1 60	426	0 26	21	235	--	Mc
X	50	Ponte 1	04019060140000	-120 16376	36 77382	5487	5487	Moreno	co	no	1 48	0 05	0 31	2 04	409	0 14	21	138	--	Mc
X	50	Ponte 1	04019060140000	-120 16376	36 77382	5606	5606	Moreno	co	no	0 80	0 06	0 23	1 89	407	0 21	29	236	--	Mc
X	50	Ponte 1	04019060140000	-120 16376	36 77382	5655	5655	Moreno	co	no	1 71	0 04	0 38	2 78	410	0 10	22	163	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	4999	4999	Moreno	co	no	1 70	0 12	3 96	1 00	420	0 03	233	59	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5051	5051	Moreno	co	no	1 55	0 06	2 62	0 98	418	0 02	169	63	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5100	5100	Moreno	co	no	2 04	0 09	4 76	1 53	420	0 02	233	75	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5169	5169	Moreno	co	no	1 91	0 08	4 10	1 30	429	0 02	215	68	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5209	5209	Moreno	co	no	2 83	0 24	5 66	2 60	418	0 04	200	92	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5241	5241	Moreno	co	no	2 89	0 24	8 64	2 25	410	0 03	299	78	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5261	5261	Moreno	co	no	2 27	0 18	6 26	1 07	408	0 03	276	47	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5304	5304	Moreno	co	no	3 14	0 26	9 83	1 33	410	0 03	313	42	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5350	5350	Moreno	co	no	3 59	0 28	13 41	1 43	413	0 02	374	40	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5392	5392	Moreno	co	no	3 99	0 30	14 03	1 54	405	0 02	352	39	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5442	5442	Moreno	co	no	3 20	0 24	6 68	1 71	400	0 03	209	53	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5491	5491	Moreno	co	no	2 05	0 14	3 04	1 43	406	0 04	148	70	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5546	5546	Moreno	co	no	3 03	0 21	9 89	1 43	413	0 02	326	47	--	Mc
X	51	Lillis 85-36	04019060730000	-120 60589	36 58309	5599	5599	Moreno	co	no	2 36	0 14	6 65	1 16	433	0 02	282	49	--	Mc
X	52	Henderson 66-22	04019060780000	-120 31988	36 60749	8161	8161	Moreno	co	no	1 18	0 02	0 46	1 59	429	0 04	39	135	--	Mc
X	52	Henderson 66-22	04019060780000	-120 31988	36 60749	8931	8931	Moreno	co	no	0 86	0 10	1 36	1 02	430	0 07	158	119	--	Mc
	53	Cerini 1	04019062390000	-119 90267	36 47505	5000	5000	Undesignated	co	no	0 11	--	--	--	--	--	--	--	0 47	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5100	5100	Undesignated	co	no	0 06	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5200	5200	Undesignated	co	no	0 05	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5300	5300	Undesignated	co	no	0 16	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5400	5400	Undesignated	co	no	0 20	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5500	5500	Undesignated	co	no	0 16	--	--	--	--	--	--	--	0 48	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5600	5600	Undesignated	co	no	0 06	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5700	5700	Undesignated	co	no	0 04	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5730	5790	Undesignated	cc	no	0 06	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5790	5850	Undesignated	cc	no	0 13	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5850	5910	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5910	5970	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	5970	6030	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	0 42	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6030	6090	Undesignated	cc	no	0 14	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6090	6150	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6150	6210	Undesignated	cc	no	0 12	--	--	--	--	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	53	Cerini 1	04019062390000	-119 90267	36 47505	6210	6270	Undesignated	cc	no	0 14	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6270	6330	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6330	6390	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6390	6450	Undesignated	cc	no	0 10	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6450	6510	Undesignated	cc	no	0 06	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6510	6570	Undesignated	cc	no	0 04	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6570	6630	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	0 35	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6630	6690	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6690	6750	Undesignated	cc	no	0 09	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6750	6810	Undesignated	cc	no	0 05	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6810	6870	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6870	6930	Undesignated	cc	no	0 06	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6930	6990	Undesignated	cc	no	0 12	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	6990	7050	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	7050	7110	Undesignated	cc	no	0 04	--	--	--	--	--	--	--	0 63	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	7110	7170	Undesignated	cc	no	0 05	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	7170	7230	Undesignated	cc	no	0 06	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	7230	7290	Undesignated	cc	no	0 06	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	7290	7350	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	7350	7410	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	7410	7470	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
	53	Cerini 1	04019062390000	-119 90267	36 47505	7470	7530	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
X	53	Cerini 1	04019062390000	-119 90267	36 47505	7530	7590	Moreno	cc	no	1 79	0 15	2 44	2 71	420	0 06	136	151	0 28	CWSR
X	53	Cerini 1	04019062390000	-119 90267	36 47505	7590	7650	Moreno	cc	no	1 95	0 04	2 57	2 75	426	0 02	132	141	--	CWSR
X	53	Cerini 1	04019062390000	-119 90267	36 47505	7650	7710	Moreno	cc	no	2 17	0 13	2 94	3 73	418	0 04	135	172	--	CWSR
X	53	Cerini 1	04019062390000	-119 90267	36 47505	7710	7830	Moreno	cc	no	2 07	0 13	2 55	3 36	417	0 05	123	162	--	CWSR
X	53	Cerini 1	04019062390000	-119 90267	36 47505	7830	7890	Moreno	cc	no	1 61	0 06	1 54	2 73	420	0 04	96	170	--	CWSR
X	53	Cerini 1	04019062390000	-119 90267	36 47505	7890	8040	Moreno	cc	no	1 46	0 07	1 53	2 32	425	0 04	105	159	0 32	CWSR
	54	CLA 67-29	04029013650000	-119 30998	35 28479	12253	12263	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
	54	CLA 67-29	04029013650000	-119 30998	35 28479	13578	13587	Undesignated	cc	no	0 69	--	--	--	--	--	--	--	--	CWSR
	54	CLA 67-29	04029013650000	-119 30998	35 28479	13814	13836	Undesignated	cc	no	0 77	--	--	--	--	--	--	--	--	CWSR
X	54	CLA 67-29	04029013650000	-119 30998	35 28479	14206	14244	Kreyenhagen	cc	no	1 66	1 04	5 09	0 79	442	0 17	307	48	--	CWSR
X	54	CLA 67-29	04029013650000	-119 30998	35 28479	14549	14567	Kreyenhagen	cc	no	1 46	1 85	3 41	0 76	437	0 35	234	52	0 42	CWSR
X	54	CLA 67-29	04029013650000	-119 30998	35 28479	15055	15060	Kreyenhagen	cc	no	1 97	1 85	4 44	1 09	436	0 29	225	55	--	CWSR
X	54	CLA 67-29	04029013650000	-119 30998	35 28479	15278	15292	Kreyenhagen	cc	no	1 23	0 79	1 68	0 59	447	0 32	137	48	--	CWSR
	54	CLA 67-29	04029013650000	-119 30998	35 28479	15433	15449	Pt of Rocks	cc	no	1 12	1 01	0 85	0 54	431	0 54	76	48	--	CWSR
	54	CLA 67-29	04029013650000	-119 30998	35 28479	15772	15798	Pt of Rocks	cc	no	0 56	--	--	--	--	--	--	--	0 76	CWSR
	54	CLA 67-29	04029013650000	-119 30998	35 28479	15998	16026	Pt of Rocks	cc	no	0 89	--	--	--	--	--	--	--	--	CWSR
X	54	CLA 67-29	04029013650000	-119 30998	35 28479	16495	16510	Kreyenhagen	cc	no	1 16	0 60	1 17	0 69	449	0 34	101	59	0 93	CWSR
X	54	CLA 67-29	04029013650000	-119 30998	35 28479	16953	16967	Kreyenhagen	cc	no	1 00	0 60	0 85	0 59	448	0 41	85	59	0 87	CWSR
X	54	CLA 67-29	04029013650000	-119 30998	35 28479	17449	17463	Kreyenhagen	cc	no	1 34	0 82	1 47	0 98	447	0 36	110	73	1 00	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	6603	6603	Antelope	co	no	3 45	0 42	9 59	2 23	415	0 04	278	65	0 30	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	6703	6703	Antelope	co	no	8 15	1 40	32 83	6 32	416	0 04	403	78	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	6765	6765	Antelope	co	no	2 34	0 37	8 73	2 13	421	0 04	373	91	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	6822	6822	Antelope	co	no	1 52	0 25	3 81	1 14	423	0 06	251	75	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	6850	6850	Antelope	co	no	1 31	0 17	1 79	0 80	417	0 09	137	61	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	6962	6962	Antelope	co	no	4 34	0 67	18 97	2 81	415	0 03	437	65	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	7044	7044	Antelope	co	no	1 01	0 09	0 79	0 88	408	0 10	78	87	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	7155	7160	Antelope	cc	no	2 31	0 33	6 84	1 50	419	0 05	296	65	0 30	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	7267	7267	Antelope	co	no	2 09	0 24	5 34	2 03	422	0 04	256	97	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	7327	7327	Antelope	co	no	3 29	0 40	6 50	2 28	408	0 06	198	69	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	7392	7401	Antelope	cc	no	2 37	0 26	4 46	1 80	421	0 06	188	76	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	7473	7473	Antelope	co	no	2 01	0 09	3 59	1 51	425	0 02	179	75	0 32	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8005	8005	Antelope	co	no	1 32	0 16	2 61	0 93	422	0 06	198	70	0 31	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8064	8064	Undesignated	co	no	0 42	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8125	8125	Undesignated	co	no	0 85	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8186	8186	Undesignated	co	no	0 18	--	--	--	--	--	--	--	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8246	8246	Antelope	co	no	1 27	0 03	1 87	1 12	430	0 02	147	88	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8306	8306	Antelope	co	no	2 89	0 14	9 03	2 31	420	0 02	312	80	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8358	8367	Antelope	cc	no	3 89	0 34	15 16	2 40	419	0 02	390	62	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8429	8429	Antelope	co	no	2 20	0 33	7 78	1 27	420	0 04	354	58	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8487	8487	Undesignated	co	no	0 75	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8545	8545	Undesignated	co	no	0 16	--	--	--	--	--	--	--	0 26	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8645	8645	Undesignated	co	no	0 05	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8700	8700	Undesignated	co	no	0 07	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8858	8858	Undesignated	co	no	0 43	--	--	--	--	--	--	--	--	CWSR
X	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	8943	8943	Antelope	co	no	1 38	0 13	5 10	1 02	421	0 02	370	74	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9095	9095	Undesignated	co	no	0 93	--	--	--	--	--	--	--	0 30	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9304	9304	Undesignated	co	no	0 34	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9382	9382	Undesignated	co	no	0 47	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9502	9502	Undesignated	co	no	0 46	--	--	--	--	--	--	--	0 32	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9582	9582	Undesignated	co	no	0 38	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9649	9649	Undesignated	co	no	0 31	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9708	9708	Undesignated	co	no	0 44	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9768	9768	Undesignated	co	no	0 31	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9843	9843	Undesignated	co	no	0 49	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9885	9885	Undesignated	co	no	0 19	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	9945	9945	Undesignated	co	no	0 45	--	--	--	--	--	--	--	0 32	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	10016	10016	Undesignated	co	no	0 24	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	10074	10074	Undesignated	co	no	0 05	--	--	--	--	--	--	--	--	CWSR
	55	Camp West Lowe 1	04029084420000	-119 10948	35 41884	10119	10119	Undesignated	co	no	0 04	--	--	--	--	--	--	--	--	CWSR
X	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	7600	7660	Antelope	cc	no	2 17	0 43	8 05	1 69	431	0 05	371	78	0 38	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	7660	7720	Antelope	cc	no	1 67	--	--	--	--	--	--	--	--	CWSR
X	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	7720	7780	Antelope	cc	no	1 70	0 40	5 25	2 22	426	0 07	309	131	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	7780	7840	Antelope	cc	no	1 15	--	--	--	--	--	--	--	--	CWSR
X	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	7840	7900	Antelope	cc	no	1 58	0 30	4 76	1 16	432	0 06	301	73	--	CWSR

[illegible]

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10480	10540	Undesignated	cc	no	1 82	0 45	5 89	1 31	433	0 07	324	72	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10540	10600	Undesignated	cc	no	1 22	--	--	--	--	--	--	--	0 47	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10600	10660	Undesignated	cc	no	0 69	--	--	--	--	--	--	--	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10660	10720	Undesignated	cc	no	0 94	--	--	--	--	--	--	--	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10720	10780	Undesignated	cc	no	1 21	0 41	4 44	1 13	434	0 08	367	93	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10780	10840	Undesignated	cc	no	1 78	--	--	--	--	--	--	--	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10840	10900	Undesignated	cc	no	1 39	0 42	3 79	0 91	432	0 10	273	65	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10900	10960	Undesignated	cc	no	1 01	--	--	--	--	--	--	--	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	10960	11020	Undesignated	cc	no	0 99	--	--	--	--	--	--	--	--	CWSR
	56	Sheep Springs 1	04029198950000	-119 71045	35 33025	11020	11080	Undesignated	cc	no	0 87	--	--	--	--	--	--	--	0 44	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	6327	6336	Undesignated	cc	no	1 31	0 04	0 51	2 82	429	0 07	39	215	0 44	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	6374	6383	Undesignated	cc	no	1 32	0 04	0 66	1 74	427	0 06	50	132	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	6474	6483	Undesignated	cc	no	1 38	0 10	1 03	2 44	427	0 09	75	177	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	6566	6575	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	6676	6688	Undesignated	cc	no	1 31	0 09	1 18	3 45	429	0 07	90	263	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	6741	6750	Undesignated	cc	no	0 41	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	6805	6815	Undesignated	cc	no	1 14	0 06	0 49	1 45	428	0 11	43	127	0 35	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	6845	6929	Undesignated	cc	no	0 83	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7020	7027	Undesignated	cc	no	1 28	0 05	0 53	1 66	427	0 09	41	130	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7090	7099	Undesignated	cc	no	1 97	0 14	1 22	2 38	426	0 10	62	121	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7163	7172	Undesignated	cc	no	2 14	0 13	1 44	2 30	424	0 08	67	107	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7193	7202	Undesignated	cc	no	1 33	0 10	1 07	1 37	429	0 09	80	103	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7283	7292	Undesignated	cc	no	1 84	0 08	1 15	1 69	431	0 07	63	92	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7356	7365	Antelope	cc	no	2 52	0 39	9 90	2 37	425	0 04	393	94	0 36	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7416	7425	Antelope	cc	no	2 40	0 30	8 43	2 11	427	0 03	351	88	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7476	7485	Antelope	cc	no	1 96	0 18	2 53	1 57	412	0 07	129	80	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7536	7544	Antelope	cc	no	2 84	0 41	11 27	3 60	420	0 04	397	127	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7591	7600	Antelope	cc	no	2 23	0 16	5 28	1 77	431	0 03	237	79	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7651	7658	Antelope	cc	no	1 55	0 11	6 11	1 49	425	0 02	394	96	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7709	7718	Antelope	cc	no	6 73	0 94	24 83	6 09	416	0 04	369	90	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7769	7778	Antelope	cc	no	4 81	0 54	23 98	3 56	421	0 02	499	74	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7832	7841	Antelope	cc	no	6 89	0 95	34 65	4 88	420	0 03	503	71	0 32	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7892	7901	Antelope	cc	no	1 88	0 26	8 03	1 41	421	0 03	427	75	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	7952	7961	Antelope	cc	no	1 15	0 23	5 19	1 19	425	0 04	451	103	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8108	8115	Antelope	cc	no	2 66	0 31	9 74	2 43	421	0 03	366	91	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8152	8161	Antelope	cc	no	3 92	0 50	20 47	3 27	423	0 02	522	83	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8214	8220	Antelope	cc	no	2 72	0 32	8 67	2 69	419	0 04	319	99	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8315	8322	Antelope	cc	no	0 14	--	--	--	--	--	--	--	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8354	8394	Antelope	cc	no	1 04	0 14	1 31	1 63	430	0 10	126	157	0 50	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8470	8478	Antelope	cc	no	1 24	0 16	1 43	1 87	418	0 10	115	151	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8537	8546	Antelope	cc	no	0 53	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8586	8596	Antelope	cc	no	0 39	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8632	8642	Antelope	cc	no	0 56	--	--	--	--	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8706	8716	Antelope	cc	no	0 34	--	--	--	--	--	--	--	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8762	8771	Antelope	cc	no	0 80	0 14	0 79	1 96	423	0 15	99	245	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	8895	8900	Antelope	cc	no	0 78	--	--	--	--	--	--	--	0 30	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9072	9080	Antelope	cc	no	0 60	--	--	--	--	--	--	--	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9199	9209	Antelope	cc	no	0 84	0 14	0 81	2 11	419	0 15	96	251	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9259	9264	Antelope	cc	no	1 11	0 17	1 44	2 42	425	0 11	130	218	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9364	9371	Antelope	cc	no	0 59	--	--	--	--	--	--	--	--	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9431	9441	Antelope	cc	no	4 21	0 47	18 60	3 81	411	0 02	442	90	0 38	CWSR
X	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9481	9484	Antelope	cc	no	2 87	0 27	11 23	2 75	418	0 02	391	96	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9576	9586	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9686	9701	Undesignated	cc	no	0 10	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9751	9761	Undesignated	cc	no	0 63	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9809	9820	Undesignated	cc	no	0 67	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9850	9860	Undesignated	cc	no	0 46	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9930	9940	Undesignated	cc	no	0 30	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	9990	10000	Undesignated	cc	no	0 34	--	--	--	--	--	--	--	0 25	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	10060	10096	Undesignated	cc	no	0 21	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	10106	10172	Undesignated	cc	no	0 29	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	10201	10211	Undesignated	cc	no	0 36	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	10266	10776	Undesignated	cc	no	0 57	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	10326	10336	Undesignated	cc	no	0 40	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	10356	10366	Undesignated	cc	no	0 77	--	--	--	--	--	--	--	--	CWSR
	57	Union Avenue 1	04029206940000	-119 01176	35 34403	10427	10427	Undesignated	cc	no	0 47	--	--	--	--	--	--	--	0 33	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5512	5515	Undesignated	cc	no	0 15	--	--	--	0 22	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5569	5572	Undesignated	cc	no	0 06	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5622	5623	Undesignated	cc	no	0 12	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5687	5690	Undesignated	cc	no	0 06	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5752	5756	Undesignated	cc	no	0 11	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5804	5810	Undesignated	cc	no	0 33	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5873	5876	Undesignated	cc	no	0 05	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5925	5928	Undesignated	cc	no	0 04	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	5985	5998	Undesignated	cc	no	0 05	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6042	6043	Undesignated	cc	no	0 09	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6109	6112	Undesignated	cc	no	0 46	--	--	--	--	--	--	--	0 40	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6162	6165	Undesignated	cc	no	0 53	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6222	6224	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6290	6295	Undesignated	cc	no	0 51	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6331	6334	Undesignated	cc	no	0 16	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6406	6409	Undesignated	cc	no	0 15	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6464	6468	Undesignated	cc	no	0 06	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6522	6530	Undesignated	cc	no	0 05	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6581	6585	Undesignated	cc	no	0 05	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6644	6648	Undesignated	cc	no	1 36	0 06	0 30	1 36	412	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	58	KCL G-1	04029309240000	-119 13950	35 36286	6703	6708	Undesignated	cc	no	0 89	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6758	6759	Undesignated	cc	no	0 15	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6828	6834	Undesignated	cc	no	1 04	0 06	0 50	1 72	414				--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6881	6884	Undesignated	cc	no	1 43	0 05	0 43	1 94	421				--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6940	6943	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	6943	6997	Undesignated	cc	no	0 03	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	7228	7231	Undesignated	cc	no	1 19	0 06	0 59	2 24	415				0 50	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	7283	7287	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	7350	7355	Undesignated	cc	no	0 05	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	7419	7423	Undesignated	cc	no	0 07	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	7463	7467	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	7522	7527	Undesignated	cc	no	0 98	0 06	0 43	1 36	414				0 41	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	10225	10228	Undesignated	cc	no	0 80	--	--	--	--	--	--	--	0 40	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	10297	10300	Undesignated	cc	no	0 64	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	10330	10336	Kreyenhagen	cc	no	1 92	0 27	6 10	2 00	425	0 04	318	104	--	CWSR
X	58	KCL G-1	04029309240000	-119 13950	35 36286	10394	10397	Kreyenhagen	cc	no	4 08	0 71	23 65	2 31	420	0 03	580	57	--	CWSR
X	58	KCL G-1	04029309240000	-119 13950	35 36286	10451	10452	Kreyenhagen	cc	no	6 91	1 20	44 46	2 95	419	0 03	643	43	--	CWSR
X	58	KCL G-1	04029309240000	-119 13950	35 36286	10493	10498	Kreyenhagen	cc	no	3 12	0 64	13 54	2 17	415	0 05	434	70	0 29	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	10567	10572	Undesignated	cc	no	0 09	--	--	--	--	--	--	--	--	CWSR
	58	KCL G-1	04029309240000	-119 13950	35 36286	10584	10588	Undesignated	cc	no	0 16	--	--	--	--	--	--	--	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6170	6230	Antelope	cc	no	1 21	2 58	3 52	0 79	422	0 42	291	65	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6260	6290	Antelope	cc	no	3 28	5 96	12 43	1 23	418	0 32	379	38	0 43	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6320	6350	Antelope	cc	no	4 61	6 75	20 34	1 40	418	0 25	441	30	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6380	6410	Antelope	cc	no	3 71	5 58	14 82	1 36	420	0 27	399	37	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6440	6500	Antelope	cc	no	3 53	6 35	15 27	1 33	418	0 29	433	38	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6530	6560	Antelope	cc	no	3 38	6 07	13 67	1 37	420	0 31	404	41	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6590	6620	Antelope	cc	no	3 60	5 56	14 36	1 64	421	0 28	399	46	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6650	6680	Antelope	cc	no	2 75	5 11	11 19	1 19	424	0 31	407	43	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6710	6740	Antelope	cc	no	3 69	7 23	15 00	1 28	418	0 33	407	35	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6770	6800	Antelope	cc	no	2 30	5 40	8 63	1 25	420	0 38	375	54	0 53	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6830	6860	Antelope	cc	no	2 44	6 09	8 07	1 22	420	0 43	331	50	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6890	6920	Antelope	cc	no	2 11	4 45	7 00	1 18	423	0 39	332	56	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	6950	6980	Antelope	cc	no	1 62	4 65	4 63	0 91	421	0 50	286	56	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7010	7040	Antelope	cc	no	2 11	4 66	6 04	1 13	420	0 44	286	54	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7070	7100	Antelope	cc	no	1 68	--	--	--	--	--	--	--	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7130	7160	Antelope	cc	no	1 14	3 06	4 15	0 90	423	0 42	364	79	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7190	7220	Antelope	cc	no	1 40	2 99	3 89	0 87	426	0 43	278	62	--	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7250	7280	Antelope	cc	no	1 38	2 73	4 36	0 83	427	0 39	316	60	0 56	CWSR
X	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7310	7340	Antelope	cc	no	1 68	3 65	4 59	1 03	423	0 44	273	61	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7370	7400	Undesignated	cc	no	0 67	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7430	7460	Undesignated	cc	no	0 61	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7490	7520	Undesignated	cc	no	1 04	2 20	1 03	0 74	417	0 68	99	71	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7550	7580	Undesignated	cc	no	0 47	--	--	--	--	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7610	7640	Undesignated	cc	no	0 23	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7670	7700	Undesignated	cc	no	0 86	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7730	7790	Undesignated	cc	no	0 84	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7790	7820	Undesignated	cc	no	0 61	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7850	7910	Undesignated	cc	no	1 06	3 25	1 43	1 43	426	0 69	135	135	0 51	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	7940	7970	Undesignated	cc	no	0 46	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	8000	8030	Undesignated	cc	no	0 54	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	8060	8090	Undesignated	cc	no	0 32	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	8120	8180	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	8150	8210	Undesignated	cc	no	0 35	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	8240	8270	Undesignated	cc	no	0 44	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	8300	8330	Undesignated	cc	no	0 63	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	8420	8450	Undesignated	cc	no	0 37	--	--	--	--	--	--	--	--	CWSR
	59	Hellman 13-1X	04029352820000	-119 89165	35 78794	8480	8510	Undesignated	cc	no	0 42	--	--	--	--	--	--	--	0 51	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2040	2130	Undesignated	cc	no	0 66	--	--	--	--	--	--	--	0 39	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2196	2198	Undesignated	cc	no	1 26	0 42	0 83	1 07	393	0 34	66	85	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2262	2265	Undesignated	cc	no	0 82	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2370	2373	Undesignated	cc	no	1 00	0 22	0 49	0 97	398	0 31	49	97	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2400	2404	Undesignated	cc	no	0 73	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2497	2505	Undesignated	cc	no	0 69	--	--	--	--	--	--	--	0 41	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2609	2614	Undesignated	cc	no	1 05	0 15	0 34	1 07	394	0 31	32	102	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2714	2717	Undesignated	cc	no	1 36	0 21	0 57	1 33	389	0 27	42	98	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2814	2817	Undesignated	cc	no	0 96	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2847	2850	Undesignated	cc	no	1 31	0 23	0 34	1 15	389	0 40	26	88	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2891	2899	Undesignated	cc	no	1 30	0 22	0 51	1 20	390	0 30	39	92	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	2975	2983	Undesignated	cc	no	1 65	0 26	0 54	1 33	391	0 33	33	81	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	3124	3132	Undesignated	cc	no	2 02	0 33	1 25	1 62	393	0 21	62	80	0 37	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	3232	3243	Undesignated	cc	no	2 10	0 35	1 43	1 59	396	0 20	68	76	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	3357	3362	Undesignated	cc	no	2 21	0 77	2 26	3 02	387	0 25	102	137	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	3462	3466	Tumey	cc	no	4 01	1 18	8 19	2 98	409	0 13	204	74	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	3644	3649	Tumey	cc	no	2 28	0 86	6 56	2 37	414	0 12	288	104	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	3925	3928	Tumey	cc	no	3 20	1 08	5 67	2 35	405	0 16	177	73	0 33	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	4408	4413	Tumey	cc	no	3 44	0 90	6 79	2 29	413	0 12	197	67	0 30	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	4560	4567	Kreyenhagen	cc	no	3 35	0 67	9 53	1 74	420	0 07	284	52	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	4700	4705	Kreyenhagen	cc	no	4 78	0 51	13 97	2 15	415	0 04	292	45	0 36	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	4745	4748	Kreyenhagen	cc	no	3 72	0 38	9 48	1 40	414	0 04	255	38	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	4827	4830	Kreyenhagen	cc	no	4 13	1 60	16 87	2 11	420	0 09	408	51	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	4915	4919	Kreyenhagen	cc	no	2 59	0 34	5 72	1 02	415	0 06	221	39	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	4989	4994	Kreyenhagen	cc	no	3 38	0 61	12 64	1 18	419	0 05	374	35	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	5073	5076	Kreyenhagen	cc	no	3 68	0 44	9 23	1 22	408	0 05	251	33	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	5073	5082	Kreyenhagen	cc	no	3 30	0 42	8 32	1 26	409	0 05	252	38	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	5141	5146	Kreyenhagen	cc	no	3 29	0 45	14 42	1 81	424	0 03	438	55	0 41	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	5307	5312	Kreyenhagen	cc	no	2 67	0 37	9 03	1 03	419	0 04	338	39	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	60	Beer 5	04029375810000	-119 91242	35 65666	5446	5452	Kreyenhagen	cc	no	2 68	0 34	7 46	0 95	412	0 04	278	35	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	5512	5516	Pt Of Rocks	cc	no	0 64	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	5576	5584	Pt Of Rocks	cc	no	0 15	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	5670	5675	Pt Of Rocks	cc	no	0 15	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	5727	5732	Pt Of Rocks	cc	no	0 13	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	5793	5796	Pt Of Rocks	cc	no	0 05	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	5834	5836	Pt Of Rocks	cc	no	0 15	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	6018	6022	Pt Of Rocks	cc	no	1 29	0 27	3 53	1 21	428	0 07	274	94	0 35	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	6200	6207	Pt Of Rocks	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	6309	6313	Pt Of Rocks	cc	no	1 29	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	6421	6429	Pt Of Rocks	cc	no	0 68	--	--	--	--	--	--	--	0 40	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	6963	6963	Pt Of Rocks	co	no	0 08	--	--	--	--	--	--	--	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	7100	7104	Kreyenhagen	cc	no	2 52	0 32	8 06	1 03	424	0 04	320	41	0 34	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	7189	7189	Kreyenhagen	co	no	2 34	0 52	11 36	1 14	421	0 04	485	49	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	7314	7319	Kreyenhagen	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	7400	7406	Kreyenhagen	cc	no	1 19	0 31	3 43	0 77	423	0 08	288	65	0 43	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	7457	7466	Kreyenhagen	cc	no	2 82	0 64	13 22	1 39	423	0 05	469	49	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	7599	7604	Kreyenhagen	cc	no	0 04	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	7702	7705	Kreyenhagen	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	7730	7737	Kreyenhagen	cc	no	1 20	0 15	1 24	0 60	420	0 11	103	50	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	7830	7830	Kreyenhagen	cc	no	2 67	0 67	13 74	0 75	428	0 05	515	28	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	7873	7876	Kreyenhagen	cc	no	3 32	0 62	9 00	1 19	429	0 06	271	36	0 33	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	7910	7915	Kreyenhagen	cc	no	0 65	--	--	--	--	--	--	--	--	CWSR
	60	Beer 5	04029375810000	-119 91242	35 65666	7960	7960	Kreyenhagen	cc	no	0 59	--	--	--	--	--	--	--	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	7986	7990	Kreyenhagen	cc	no	1 95	0 46	7 98	0 57	428	0 05	409	29	--	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	8142	8150	Kreyenhagen	cc	no	3 26	0 58	8 73	0 72	429	0 06	268	22	0 37	CWSR
X	60	Beer 5	04029375810000	-119 91242	35 65666	8227	8230	Kreyenhagen	cc	no	2 32	0 56	8 00	0 90	430	0 07	345	39	--	CWSR
X	61	Richardson 46	04029394660000	-119 75656	35 41906	4700	4700	Antelope	co	no	5 67	2 35	27 86	1 95	413	0 08	491	34	--	CWSR
X	61	Richardson 46	04029394660000	-119 75656	35 41906	6122	6122	Antelope	co	no	3 32	0 65	13 18	1 71	426	0 05	397	52	0 36	CWSR
X	61	Richardson 46	04029394660000	-119 75656	35 41906	6920	6920	Antelope	co	no	2 38	0 66	8 75	0 90	431	0 07	368	38	0 43	CWSR
X	61	Richardson 46	04029394660000	-119 75656	35 41906	7685	7685	Antelope	co	no	2 06	0 77	8 02	0 81	416	0 09	389	39	0 33	CWSR
X	61	Richardson 46	04029394660000	-119 75656	35 41906	8147	8147	Antelope	co	no	2 15	0 64	8 28	1 29	430	0 07	385	60	--	CWSR
X	61	Richardson 46	04029394660000	-119 75656	35 41906	8300	8300	Antelope	co	no	1 07	0 31	4 29	0 77	430	0 07	401	72	--	CWSR
X	61	Richardson 46	04029394660000	-119 75656	35 41906	8503	8503	Antelope	co	no	2 84	0 95	13 09	0 86	429	0 07	461	30	0 35	CWSR
	61	Richardson 46	04029394660000	-119 75656	35 41906	8620	8620	Undesignated	co	no	0 15	--	--	--	--	--	--	--	--	CWSR
	61	Richardson 46	04029394660000	-119 75656	35 41906	8655	8655	Undesignated	co	no	0 17	--	--	--	--	--	--	--	--	CWSR
	61	Richardson 46	04029394660000	-119 75656	35 41906	8830	8830	Undesignated	co	no	0 13	--	--	--	--	--	--	--	--	CWSR
	61	Richardson 46	04029394660000	-119 75656	35 41906	9605	9605	Undesignated	co	no	0 16	--	--	--	--	--	--	--	0 26	CWSR
	61	Richardson 46	04029394660000	-119 75656	35 41906	9643	9643	Undesignated	co	no	0 06	--	--	--	--	--	--	--	--	CWSR
	62	Houchin 1	04029419460000	-119 59934	35 68324	5320	5350	Undesignated	cc	no	0 85	--	--	--	--	--	--	--	--	CWSR
	62	Houchin 1	04029419460000	-119 59934	35 68324	5380	5410	Undesignated	cc	no	1 51	0 13	4 67	0 82	434	0 03	309	54	--	CWSR
	62	Houchin 1	04029419460000	-119 59934	35 68324	5440	5470	Undesignated	cc	no	1 68	0 44	5 15	1 17	433	0 08	307	70	--	CWSR
	62	Houchin 1	04029419460000	-119 59934	35 68324	5500	5530	Undesignated	cc	no	1 37	0 26	4 05	0 98	434	0 06	296	72	--	CWSR

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X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
62		Houchin 1	04029419460000	-119 59934	35 68324	5560	5590	Undesignated	cc	no	0 77	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	5620	5650	Undesignated	cc	no	0 71	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	5680	5710	Undesignated	cc	no	1 28	0 09	2 51	1 00	437	0 03	196	78	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	5740	5770	Undesignated	cc	no	0 56	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	5800	5830	Undesignated	cc	no	0 75	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	5860	5890	Undesignated	cc	no	0 83	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	5920	5950	Undesignated	cc	no	0 92	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	5980	6010	Undesignated	cc	no	0 86	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6040	6070	Undesignated	cc	no	0 67	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6100	6130	Undesignated	cc	no	1 17	0 08	2 50	0 77	435	0 03	214	66	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6160	6190	Undesignated	cc	no	1 69	0 12	5 81	0 72	436	0 02	344	43	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6220	6250	Undesignated	cc	no	2 40	0 19	8 63	1 49	437	0 02	360	62	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6280	6310	Undesignated	cc	no	0 99	0 10	1 67	0 71	436	0 06	169	72	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6340	6370	Undesignated	cc	no	1 48	0 16	3 93	0 86	435	0 04	266	58	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6400	6430	Undesignated	cc	no	0 78	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6460	6490	Undesignated	cc	no	0 77	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6520	6550	Undesignated	cc	no	0 66	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6580	6610	Undesignated	cc	no	1 03	0 15	2 46	0 87	435	0 06	239	84	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6640	6670	Undesignated	cc	no	0 63	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6700	6730	Undesignated	cc	no	0 51	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6760	6790	Undesignated	cc	no	0 68	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6820	6850	Undesignated	cc	no	0 62	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6880	6910	Undesignated	cc	no	0 67	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	6940	6970	Undesignated	cc	no	0 43	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7020	7050	Undesignated	cc	no	0 44	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7080	7110	Undesignated	cc	no	0 50	0 13	0 46	0 69	426	0 22	92	138	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7140	7170	Undesignated	cc	no	0 65	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7200	7230	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7260	7290	Undesignated	cc	no	0 50	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7320	7350	Undesignated	cc	no	0 67	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7380	7410	Undesignated	cc	no	0 49	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7440	7470	Undesignated	cc	no	0 54	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7510	7540	Undesignated	cc	no	0 31	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7570	7600	Undesignated	cc	no	0 35	0 11	0 28	0 57	418	0 28	80	163	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7630	7660	Undesignated	cc	no	0 42	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7690	7720	Undesignated	cc	no	0 54	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7750	7780	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7820	7850	Undesignated	cc	no	0 35	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7880	7910	Undesignated	cc	no	0 30	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	7940	7970	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8000	8030	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8060	8090	Undesignated	cc	no	0 32	0 13	0 35	0 52	427	0 27	109	163	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8120	8150	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
62		Houchin 1	04029419460000	-119 59934	35 68324	8180	8210	Undesignated	cc	no	0 33	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8240	8270	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8300	8330	Undesignated	cc	no	0 32	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8360	8390	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8420	8450	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8510	8510	Undesignated	co	no	0 24	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8540	8570	Undesignated	cc	no	0 29	0 12	0 30	0 43	423	0 29	103	148	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8600	8630	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8660	8690	Undesignated	cc	no	0 31	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8720	8750	Undesignated	cc	no	0 30	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8780	8810	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8840	8870	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8900	8930	Undesignated	cc	no	0 33	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	8960	8990	Undesignated	cc	no	0 35	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9020	9050	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9080	9110	Undesignated	cc	no	0 56	0 20	0 87	0 59	427	0 19	155	105	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9140	9170	Undesignated	cc	no	0 26	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9200	9230	Undesignated	cc	no	0 21	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9260	9290	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9320	9350	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9410	9410	Undesignated	co	no	0 33	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9440	9470	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9500	9530	Undesignated	cc	no	0 42	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9560	9590	Undesignated	cc	no	0 50	0 22	0 81	0 48	421	0 21	162	96	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9620	9650	Undesignated	cc	no	0 52	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9710	9710	Undesignated	co	no	0 36	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9740	9770	Undesignated	cc	no	0 42	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9800	9830	Undesignated	cc	no	0 49	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9860	9890	Undesignated	cc	no	0 49	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9920	9950	Undesignated	cc	no	0 52	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	9980	10010	Undesignated	cc	no	0 55	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10040	10070	Undesignated	cc	no	0 51	0 16	0 58	0 83	419	0 22	114	163	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10100	10130	Undesignated	cc	no	0 65	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10160	10190	Undesignated	cc	no	0 59	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10220	10250	Undesignated	cc	no	0 75	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10250	10250	Undesignated	co	no	--	--	--	--	--	--	--	--	0 48	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10280	10310	Undesignated	cc	no	0 74	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10280	10460	Undesignated	cc	no	0 61	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10310	10460	Undesignated	cc	no	--	--	--	--	--	--	--	--	0 50	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10340	10370	Undesignated	cc	no	0 61	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10400	10430	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR
62		Houchin 1	04029419460000	-119 59934	35 68324	10430	10460	Undesignated	cc	no	0 60	0 19	0 67	0 78	419	0 22	112	130	--	CWSR
63		Tenneco 73-12	04029464520000	-119 43928	35 59627	8500	8530	Undesignated	cc	no	0 46	--	--	--	--	--	--	--	0 31	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11140	11170	Antelope	cc	no	1 46	0 43	4 51	0 91	430	0 09	309	62	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11200	11230	Antelope	cc	no	1 31	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11260	11290	Antelope	cc	no	1 48	0 38	4 45	0 93	431	0 08	301	63	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11320	11350	Antelope	cc	no	2 09	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11380	11410	Antelope	cc	no	2 81	0 77	11 67	1 36	428	0 06	415	48	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11440	11470	Antelope	cc	no	4 94	0 65	15 46	2 82	429	0 04	313	57	0 42	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11500	11530	Antelope	cc	no	2 28	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11560	11590	Antelope	cc	no	2 34	0 70	7 71	1 31	431	0 08	329	56	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11620	11650	Antelope	cc	no	1 56	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11680	11710	Antelope	cc	no	1 28	0 39	3 82	1 05	429	0 09	298	82	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11740	11770	Antelope	cc	no	1 18	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11800	11830	Antelope	cc	no	1 75	0 39	5 45	1 19	431	0 07	311	68	0 33	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11860	11890	Undesignated	cc	no	1 12	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11920	11950	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	11980	12010	Undesignated	cc	no	0 82	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12040	12070	Undesignated	cc	no	0 82	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12100	12130	Undesignated	cc	no	0 50	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12160	12190	Undesignated	cc	no	0 40	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12220	12250	Undesignated	cc	no	0 57	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12280	12310	Undesignated	cc	no	0 31	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12340	12370	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12360	12390	Undesignated	cc	no	0 67	--	--	--	--	--	--	--	0 30	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12400	12430	Undesignated	cc	no	0 39	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12460	12490	Undesignated	cc	no	0 33	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12520	12550	Undesignated	cc	no	0 41	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12580	12610	Undesignated	cc	no	0 46	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12640	12670	Undesignated	cc	no	0 33	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12700	12730	Undesignated	cc	no	0 45	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12760	12790	Undesignated	cc	no	0 51	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12820	12850	Undesignated	cc	no	0 49	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12850	12880	Undesignated	cc	no	0 65	--	--	--	--	--	--	--	0 44	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12910	12940	Undesignated	cc	no	1 13	0 29	2 09	0 68	433	0 12	185	60	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	12970	13000	Undesignated	cc	no	1 31	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13030	13060	Undesignated	cc	no	1 54	0 63	5 00	0 98	431	0 11	325	64	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13090	13120	Undesignated	cc	no	1 81	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13150	13180	Undesignated	cc	no	1 97	0 73	7 04	1 10	430	0 09	357	56	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13210	13240	Undesignated	cc	no	1 43	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13270	13300	Undesignated	cc	no	0 61	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13330	13360	Undesignated	cc	no	0 62	--	--	--	--	--	--	--	0 42	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13390	13420	Undesignated	cc	no	0 40	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13420	13450	Undesignated	cc	no	0 64	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13480	13510	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13540	13570	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13600	13630	Undesignated	cc	no	0 09	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13660	13690	Undesignated	cc	no	0 10	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13720	13750	Undesignated	cc	no	0 81	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13780	13810	Undesignated	cc	no	1 20	0 75	2 87	0 61	431	0 21	239	51	0 34	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13840	13870	Undesignated	cc	no	0 61	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13900	13930	Undesignated	cc	no	0 54	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	13960	13990	Undesignated	cc	no	0 54	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14020	14050	Undesignated	cc	no	0 36	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14080	14110	Undesignated	cc	no	0 86	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14140	14170	Undesignated	cc	no	0 75	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14200	14230	Undesignated	cc	no	1 51	--	--	--	--	--	--	--	0 42	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14260	14290	Tumey	cc	no	1 66	1 00	7 76	1 32	430	0 11	467	80	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14320	14350	Tumey	cc	no	1 42	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14380	14410	Tumey	cc	no	2 11	1 88	6 98	0 70	435	0 21	331	33	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14440	14470	Kreyenhagen	cc	no	1 88	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14500	14530	Kreyenhagen	cc	no	1 73	1 72	4 22	1 25	435	0 29	244	72	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14560	14590	Kreyenhagen	cc	no	1 64	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14620	14650	Kreyenhagen	cc	no	1 54	1 47	3 90	1 11	434	0 27	253	72	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14680	14710	Kreyenhagen	cc	no	1 27	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14740	14770	Kreyenhagen	cc	no	1 62	0 93	2 83	1 16	435	0 25	175	72	0 53	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14800	14830	Kreyenhagen	cc	no	1 38	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14860	14890	Kreyenhagen	cc	no	1 45	2 22	3 12	0 86	436	0 42	215	59	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14920	14950	Kreyenhagen	cc	no	1 56	--	--	--	--	--	--	--	--	CWSR
X	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	14980	15010	Kreyenhagen	cc	no	1 57	2 61	3 69	1 02	436	0 41	235	65	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15040	15070	Kreyenhagen	cc	no	1 76	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15100	15130	Undesignated	cc	no	1 90	4 67	4 35	1 02	438	0 52	229	54	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15160	15190	Undesignated	cc	no	1 94	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15220	15250	Undesignated	cc	no	2 08	11 81	5 04	1 21	436	0 70	242	58	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15280	15310	Undesignated	cc	no	2 06	--	--	--	--	--	--	--	0 47	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15340	15370	Undesignated	cc	no	1 76	6 29	5 01	0 86	436	0 56	285	49	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15400	15430	Undesignated	cc	no	1 87	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15460	15490	Undesignated	cc	no	2 40	17 79	7 16	1 19	426	0 71	298	50	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15520	15550	Undesignated	cc	no	1 27	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15580	15610	Undesignated	cc	no	1 10	8 68	4 12	0 99	427	0 68	375	90	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15640	15670	Undesignated	cc	no	1 09	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15700	15730	Undesignated	cc	no	1 16	4 10	2 29	0 86	430	0 64	197	74	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15760	15790	Undesignated	cc	no	1 74	3 66	2 51	0 83	433	0 59	144	48	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15820	15850	Undesignated	cc	no	1 45	--	--	--	--	--	--	--	0 46	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15880	15910	Undesignated	cc	no	1 77	9 53	5 26	0 96	433	0 64	297	54	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	15940	15970	Undesignated	cc	no	1 33	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	16000	16030	Undesignated	cc	no	1 54	--	--	--	--	--	--	--	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	16060	16090	Undesignated	cc	no	1 94	15 20	6 58	1 01	429	0 70	339	52	--	CWSR
	63	Tenneco 73-12	04029464520000	-119 43928	35 59627	16120	16150	Undesignated	cc	no	0 94	--	--	--	--	--	--	--	0 54	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
63		Tenneco 73-12	04029464520000	-119 43928	35 59627	16180	16210	Undesignated	cc	no	1 08	--	--	--	--	--	--	--	--	CWSR
63		Tenneco 73-12	04029464520000	-119 43928	35 59627	16240	16270	Undesignated	cc	no	0 76	--	--	--	--	--	--	--	--	CWSR
63		Tenneco 73-12	04029464520000	-119 43928	35 59627	16300	16330	Undesignated	cc	no	1 01	--	--	--	--	--	--	--	--	CWSR
63		Tenneco 73-12	04029464520000	-119 43928	35 59627	16360	16390	Undesignated	cc	no	0 81	--	--	--	--	--	--	--	--	CWSR
63		Tenneco 73-12	04029464520000	-119 43928	35 59627	16420	16450	Undesignated	cc	no	0 71	--	--	--	--	--	--	--	--	CWSR
63		Tenneco 73-12	04029464520000	-119 43928	35 59627	16480	16510	Undesignated	cc	no	0 59	--	--	--	--	--	--	--	0 55	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	5960	6020	Undesignated	cc	no	1 64	0 25	3 93	1 18	434	0 06	240	72	0 44	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6020	6080	Undesignated	cc	no	1 69	0 21	2 78	2 12	430	0 07	164	125	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6080	6140	Undesignated	cc	no	1 15	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6140	6200	Undesignated	cc	no	0 68	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6200	6260	Undesignated	cc	no	0 60	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6320	6380	Undesignated	cc	no	1 29	0 18	2 41	1 62	436	0 07	187	126	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6380	6440	Undesignated	cc	no	1 09	--	--	--	--	--	--	--	0 37	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6440	6500	Undesignated	cc	no	0 66	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6500	6560	Undesignated	cc	no	0 40	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6560	6620	Undesignated	cc	no	0 31	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6620	6680	Undesignated	cc	no	0 91	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6680	6740	Undesignated	cc	no	0 80	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6740	6800	Undesignated	cc	no	0 85	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6800	6860	Undesignated	cc	no	0 75	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6860	6920	Undesignated	cc	no	0 37	--	--	--	--	--	--	--	0 44	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6920	6980	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	6980	7040	Undesignated	cc	no	0 56	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7040	7100	Undesignated	cc	no	1 03	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7100	7160	Undesignated	cc	no	1 08	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7160	7220	Undesignated	cc	no	1 37	0 24	3 17	0 91	440	0 07	231	66	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7220	7280	Undesignated	cc	no	0 89	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7280	7340	Undesignated	cc	no	1 25	0 29	3 90	0 91	439	0 07	312	73	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7340	7400	Undesignated	cc	no	1 46	0 30	4 43	0 59	437	0 06	303	40	0 45	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7400	7460	Undesignated	cc	no	1 19	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7460	7520	Undesignated	cc	no	1 05	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7520	7580	Undesignated	cc	no	0 61	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7580	7640	Undesignated	cc	no	0 72	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7640	7700	Undesignated	cc	no	0 55	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7700	7760	Undesignated	cc	no	1 24	0 26	3 46	0 49	440	0 07	279	40	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7760	7820	Undesignated	cc	no	0 54	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7820	7880	Undesignated	cc	no	0 77	--	--	--	--	--	--	--	0 38	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7880	7940	Undesignated	cc	no	0 70	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	7940	8000	Undesignated	cc	no	0 54	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8000	8060	Undesignated	cc	no	0 72	0 13	1 00	0 85	434	0 12	139	118	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8060	8120	Undesignated	cc	no	1 66	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8120	8180	Undesignated	cc	no	1 20	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8180	8240	Undesignated	cc	no	0 77	--	--	--	--	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8240	8300	Undesignated	cc	no	1 04	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8300	8360	Undesignated	cc	no	1 23	0 63	2 38	0 83	438	0 21	193	67	0 45	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8360	8420	Undesignated	cc	no	0 80	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8420	8480	Undesignated	cc	no	0 97	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8480	8540	Undesignated	cc	no	1 31	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8540	8600	Undesignated	cc	no	1 49	0 38	2 10	0 94	441	0 15	141	63	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8600	8660	Undesignated	cc	no	1 15	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8660	8720	Undesignated	cc	no	2 34	1 52	5 60	1 38	434	0 21	239	59	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8720	8780	Undesignated	cc	no	1 36	0 51	2 40	1 20	442	0 18	176	88	0 53	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8780	8840	Undesignated	cc	no	1 53	0 62	3 25	1 49	441	0 16	212	97	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8840	8900	Undesignated	cc	no	1 79	0 62	3 81	0 89	439	0 14	213	50	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8900	8960	Undesignated	cc	no	1 67	0 58	2 77	0 93	440	0 17	166	56	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	8960	9020	Undesignated	cc	no	1 40	0 54	1 75	1 14	436	0 24	125	81	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9020	9080	Undesignated	cc	no	2 54	1 83	8 46	1 67	433	0 18	333	66	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9080	9140	Undesignated	cc	no	1 65	0 59	3 12	0 68	434	0 16	189	41	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9140	9200	Undesignated	cc	no	1 54	0 61	2 90	1 62	435	0 17	188	105	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9200	9260	Undesignated	cc	no	1 61	0 50	1 57	0 73	438	0 24	98	45	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9260	9320	Undesignated	cc	no	1 30	--	--	--	--	--	--	--	0 75	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9320	9380	Undesignated	cc	no	1 02	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9380	9440	Undesignated	cc	no	1 19	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9440	9500	Undesignated	cc	no	1 24	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9500	9560	Undesignated	cc	no	1 84	1 18	4 59	1 75	432	0 20	249	95	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9560	9620	Undesignated	cc	no	1 61	1 10	3 06	0 84	436	0 26	190	52	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9620	9680	Undesignated	cc	no	1 42	0 68	1 84	0 88	439	0 27	130	62	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9680	9740	Undesignated	cc	no	1 64	0 60	2 50	1 16	438	0 19	152	71	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9740	9800	Undesignated	cc	no	2 04	0 77	4 64	1 41	430	0 14	227	69	0 39	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9800	9860	Undesignated	cc	no	1 22	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9860	9920	Undesignated	cc	no	0 55	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9920	9980	Undesignated	cc	no	0 53	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	9980	10040	Undesignated	cc	no	0 66	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10040	10100	Undesignated	cc	no	1 33	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10100	10160	Undesignated	cc	no	1 51	0 35	1 23	1 11	445	0 22	81	74	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10160	10220	Undesignated	cc	no	1 69	0 48	2 32	1 52	443	0 17	137	90	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10220	10280	Undesignated	cc	no	1 63	0 65	2 12	0 94	444	0 23	130	58	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10280	10340	Undesignated	cc	no	1 59	0 26	1 01	1 02	441	0 20	64	64	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10340	10400	Undesignated	cc	no	1 80	0 44	2 40	0 97	440	0 15	133	54	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10400	10460	Undesignated	cc	no	1 67	0 54	2 89	1 12	440	0 16	173	67	0 71	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10460	10520	Undesignated	cc	no	1 61	0 49	1 98	1 58	445	0 20	123	98	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10520	10580	Undesignated	cc	no	1 83	0 63	3 27	0 95	441	0 16	179	52	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10580	10640	Undesignated	cc	no	1 54	0 43	2 16	1 45	444	0 17	140	94	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10640	10700	Undesignated	cc	no	1 52	0 42	2 44	1 24	446	0 15	161	82	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10700	10760	Undesignated	cc	no	1 36	0 35	1 56	1 34	444	0 18	115	99	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10760	10820	Undesignated	cc	no	1 55	0 33	2 24	0 80	445	0 13	145	52	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10820	10880	Undesignated	cc	no	1 51	0 30	1 94	0 98	445	0 13	128	65	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10880	10940	Undesignated	cc	no	1 85	1 33	4 01	1 04	440	0 25	217	56	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	10940	11000	Undesignated	cc	no	1 60	0 53	2 60	0 85	439	0 17	163	53	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	11480	11540	Undesignated	cc	no	1 03	--	--	--	--	--	--	--	0 58	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	11540	11600	Undesignated	cc	no	0 85	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	11600	11660	Undesignated	cc	no	0 51	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	11660	11720	Undesignated	cc	no	1 05	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	11720	11780	Undesignated	cc	no	0 99	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	11780	11840	Undesignated	cc	no	0 68	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	11840	11900	Undesignated	cc	no	1 07	0 42	1 62	0 87	445	0 21	151	81	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	11900	11960	Undesignated	cc	no	1 02	--	--	--	--	--	--	--	0 65	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12350	12410	Undesignated	cc	no	1 06	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12410	12470	Undesignated	cc	no	1 04	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12470	12530	Undesignated	cc	no	1 17	0 42	1 73	1 19	444	0 20	148	102	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12530	12590	Undesignated	cc	no	1 08	--	--	--	--	--	--	--	0 58	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12590	12650	Undesignated	cc	no	0 68	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12650	12710	Undesignated	cc	no	0 71	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12710	12770	Undesignated	cc	no	1 04	0 35	1 04	0 94	448	0 25	100	90	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12770	12830	Undesignated	cc	no	0 55	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12830	12890	Undesignated	cc	no	0 68	--	--	--	--	--	--	--	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12890	12950	Undesignated	cc	no	1 29	0 32	1 37	1 36	449	0 19	106	105	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	12950	13010	Undesignated	cc	no	1 26	0 42	1 57	1 19	449	0 21	125	94	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	13010	13070	Undesignated	cc	no	1 22	--	--	--	--	--	--	--	0 53	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	13070	13130	Undesignated	cc	no	1 48	0 46	1 82	1 43	447	0 20	123	97	--	CWSR
64		Pioneer Federal Unit 1	04029480000000	-119 34645	34 99435	13130	13190	Undesignated	cc	no	1 42	0 33	1 32	1 32	451	0 20	93	93	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	6540	6600	Undesignated	cc	no	0 15	--	--	--	--	--	--	--	0 35	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	6600	6660	Undesignated	cc	no	0 15	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	6660	6720	Undesignated	cc	no	0 18	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	6720	6780	Undesignated	cc	no	0 13	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	6780	6840	Undesignated	cc	no	0 16	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	6840	6900	Undesignated	cc	no	0 10	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	6900	6960	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	6960	7020	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7020	7080	Undesignated	cc	no	0 10	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7080	7140	Undesignated	cc	no	0 18	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7140	7200	Undesignated	cc	no	0 11	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7200	7260	Undesignated	cc	no	0 14	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7260	7320	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7320	7380	Undesignated	cc	no	0 13	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7380	7440	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	0 42	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7440	7500	Undesignated	cc	no	0 18	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7500	7560	Undesignated	cc	no	0 08	--	--	--	--	--	--	--	--	CWSR
65		Howe 1-2	04031002740000	-119 88098	35 95074	7560	7620	Undesignated	cc	no	0 10	--	--	--	--	--	--	--	--	CWSR

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X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	65	Howe 1-2	04031002740000	-119 88098	35 95074	7620	7680	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	7680	7740	Undesignated	cc	no	0 15	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	7740	7800	Undesignated	cc	no	0 23	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	7800	7860	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	7860	7920	Undesignated	cc	no	0 12	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	7920	7980	Undesignated	cc	no	0 26	--	--	--	--	--	--	--	0 46	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	7980	8040	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8040	8100	Undesignated	cc	no	0 12	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8100	8160	Undesignated	cc	no	0 10	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8160	8220	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8220	8280	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8280	8340	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	0 41	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8340	8400	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8400	8460	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8460	8520	Undesignated	cc	no	0 21	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8520	8580	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8580	8640	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8640	8700	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8700	8760	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8760	8820	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	0 43	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8820	8880	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8880	8940	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	8940	9000	Undesignated	cc	no	0 18	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9000	9060	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9060	9120	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9120	9180	Undesignated	cc	no	0 39	--	--	--	--	--	--	--	0 46	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9180	9240	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9240	9300	Undesignated	cc	no	0 14	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9300	9360	Undesignated	cc	no	0 16	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9360	9420	Undesignated	cc	no	0 16	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9420	9480	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9480	9540	Undesignated	cc	no	0 18	--	--	--	--	--	--	--	0 48	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9540	9600	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9600	9660	Undesignated	cc	no	0 11	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9660	9720	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9720	9780	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9780	9840	Undesignated	cc	no	0 16	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9840	9900	Undesignated	cc	no	0 26	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9900	9960	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	9960	10020	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	0 45	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10020	10080	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10080	10140	Undesignated	cc	no	0 31	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10140	10200	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10200	10260	Undesignated	cc	no	0 26	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10260	10320	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10320	10380	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10380	10440	Undesignated	cc	no	0 42	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10440	10500	Undesignated	cc	no	0 33	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10500	10560	Undesignated	cc	no	0 39	--	--	--	--	--	--	--	0 64	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10560	10620	Undesignated	cc	no	0 34	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10620	10680	Undesignated	cc	no	0 39	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10680	10740	Undesignated	cc	no	0 38	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10740	10800	Undesignated	cc	no	0 45	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10800	10860	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10860	10920	Undesignated	cc	no	0 45	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10920	10980	Undesignated	cc	no	0 49	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	10980	11040	Undesignated	cc	no	0 70	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	11100	11220	Undesignated	cc	no	0 83	--	--	--	--	--	--	--	0 56	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	11250	11280	Undesignated	cc	no	1 17	0 35	2 10	0 68	426	0 14	179	58	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11310	11340	Antelope	cc	no	2 56	0 85	8 54	0 98	423	0 09	334	38	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11370	11400	Antelope	cc	no	3 19	1 47	16 20	1 05	422	0 08	508	33	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11430	11460	Antelope	cc	no	3 51	1 40	15 09	1 67	423	0 08	430	48	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11490	11520	Antelope	cc	no	3 33	1 48	14 83	1 61	423	0 09	445	48	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11550	11580	Antelope	cc	no	2 78	1 37	12 11	1 44	422	0 10	436	52	0 56	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11610	11640	Antelope	cc	no	1 93	0 80	6 28	0 83	428	0 11	325	43	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11670	11700	Antelope	cc	no	1 39	0 47	2 62	0 77	424	0 15	188	55	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11730	11760	Antelope	cc	no	1 76	0 99	6 83	0 95	428	0 13	388	54	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11790	11820	Antelope	cc	no	1 69	1 09	5 27	1 09	426	0 17	312	64	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11850	11880	Antelope	cc	no	1 24	0 59	3 00	0 72	430	0 16	242	58	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11910	11940	Antelope	cc	no	1 19	0 61	2 24	0 82	427	0 21	188	69	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	11970	12000	Antelope	cc	no	1 40	0 75	3 87	0 66	429	0 16	276	47	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12030	12060	Antelope	cc	no	1 47	0 85	3 99	0 75	430	0 18	271	51	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12090	12120	Antelope	cc	no	1 68	0 60	3 26	0 83	427	0 16	194	49	0 64	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12150	12180	Antelope	cc	no	2 39	0 89	6 62	1 09	428	0 12	277	46	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12210	12240	Antelope	cc	no	1 73	0 54	4 04	0 69	429	0 12	234	40	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12270	12300	Antelope	cc	no	1 97	0 76	7 03	0 51	428	0 10	357	26	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12330	12360	Antelope	cc	no	1 29	0 52	3 53	0 37	430	0 13	274	29	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12390	12420	Antelope	cc	no	1 61	0 60	5 79	0 47	432	0 09	360	29	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12450	12480	Antelope	cc	no	1 63	0 58	5 63	0 49	432	0 09	345	30	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12510	12540	Antelope	cc	no	1 81	0 58	4 65	0 75	432	0 11	257	41	--	CWSR
X	65	Howe 1-2	04031002740000	-119 88098	35 95074	12570	12600	Antelope	cc	no	1 88	0 60	6 06	0 55	431	0 09	322	29	0 46	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	12630	12660	Undesignated	cc	no	1 44	0 67	4 10	0 51	431	0 14	285	35	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	12690	12720	Undesignated	cc	no	1 43	0 42	3 89	0 55	434	0 10	272	38	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	12750	12780	Undesignated	cc	no	1 44	0 39	3 64	0 42	432	0 10	253	29	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	12810	12840	Undesignated	cc	no	1 48	0 39	3 35	0 58	433	0 10	226	39	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	12870	12900	Undesignated	cc	no	1 09	0 29	1 66	0 76	432	0 15	152	70	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	65	Howe 1-2	04031002740000	-119 88098	35 95074	12930	12960	Undesignated	cc	no	1 22	0 50	3 00	0 51	433	0 14	246	42	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	12990	13020	Undesignated	cc	no	1 10	0 41	2 63	0 38	433	0 13	239	35	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13050	13080	Undesignated	cc	no	1 16	0 32	2 29	0 44	432	0 12	197	38	0 37	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13110	13140	Undesignated	cc	no	0 82	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13170	13200	Undesignated	cc	no	1 15	0 36	2 43	0 43	431	0 13	211	37	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13230	13260	Undesignated	cc	no	0 89	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13290	13320	Undesignated	cc	no	0 85	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13350	13380	Undesignated	cc	no	0 74	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13410	13440	Undesignated	cc	no	0 84	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13470	13500	Undesignated	cc	no	0 90	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13530	13560	Undesignated	cc	no	0 94	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13590	13620	Undesignated	cc	no	1 05	0 36	2 02	0 46	436	0 15	192	44	0 52	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13650	13680	Undesignated	cc	no	0 61	0 38	1 29	0 41	435	0 23	211	67	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13710	13740	Undesignated	cc	no	0 49	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13770	13800	Undesignated	cc	no	0 88	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13830	13860	Undesignated	cc	no	0 74	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13890	13920	Undesignated	cc	no	0 56	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	13950	13980	Undesignated	cc	no	0 30	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14010	14040	Undesignated	cc	no	0 58	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14070	14100	Undesignated	cc	no	0 70	0 33	1 18	0 34	436	0 22	169	49	0 57	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14130	14160	Undesignated	cc	no	0 56	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14190	14220	Undesignated	cc	no	0 37	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14250	14280	Undesignated	cc	no	0 39	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14310	14340	Undesignated	cc	no	0 41	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14370	14400	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14430	14460	Undesignated	cc	no	0 60	0 51	1 00	0 35	434	0 34	167	58	0 56	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14490	14520	Undesignated	cc	no	0 53	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14530	14580	Undesignated	cc	no	0 38	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14610	14640	Undesignated	cc	no	0 43	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14670	14700	Undesignated	cc	no	0 39	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14730	14760	Undesignated	cc	no	0 35	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14790	14820	Undesignated	cc	no	0 46	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14850	14880	Undesignated	cc	no	0 30	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14910	14940	Undesignated	cc	no	0 30	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	14970	15000	Undesignated	cc	no	0 49	--	--	--	--	--	--	--	0 81	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15030	15060	Undesignated	cc	no	0 31	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15090	15120	Undesignated	cc	no	0 50	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15150	15180	Undesignated	cc	no	2 13	1 27	7 49	1 05	432	0 14	352	49	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15210	15240	Undesignated	cc	no	2 46	0 93	5 70	1 23	434	0 14	232	50	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15270	15300	Undesignated	cc	no	1 31	0 52	2 75	0 75	436	0 16	210	57	0 80	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15330	15360	Undesignated	cc	no	1 32	0 84	2 79	1 13	432	0 23	211	86	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15390	15420	Undesignated	cc	no	0 82	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15450	15480	Undesignated	cc	no	0 50	--	--	--	--	--	--	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15510	15540	Undesignated	cc	no	0 78	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15570	15600	Undesignated	cc	no	1 24	0 54	1 58	1 32	433	0 25	127	106	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15630	15660	Undesignated	cc	no	0 78	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15690	15720	Undesignated	cc	no	0 79	--	--	--	--	--	--	--	--	CWSR
	65	Howe 1-2	04031002740000	-119 88098	35 95074	15750	15780	Undesignated	cc	no	0 81	--	--	--	--	--	--	--	0 65	CWSR
	66	Malley 1	04031007730000	-120 00877	35 82034	3034	3034	Undesignated	co	no	0 27	--	--	--	--	--	--	--	0 35	CWSR
	66	Malley 1	04031007730000	-120 00877	35 82034	3415	3415	Undesignated	co	no	0 26	--	--	--	--	--	--	--	--	CWSR
	66	Malley 1	04031007730000	-120 00877	35 82034	4188	4188	Undesignated	co	no	0 38	--	--	--	--	--	--	--	0 39	CWSR
	66	Malley 1	04031007730000	-120 00877	35 82034	4191	4191	Undesignated	co	no	0 47	--	--	--	--	--	--	--	--	CWSR
	66	Malley 1	04031007730000	-120 00877	35 82034	4195	4195	Undesignated	co	no	0 46	--	--	--	--	--	--	--	--	CWSR
	66	Malley 1	04031007730000	-120 00877	35 82034	4728	4728	Undesignated	co	no	0 61	--	--	--	--	--	--	--	0 42	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5083	5083	Antelope	co	no	1 87	0 15	2 65	0 87	420	0 05	142	47	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5086	5086	Antelope	co	no	1 97	0 27	7 33	0 53	422	0 04	372	27	0 43	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5089	5089	Antelope	co	no	1 66	0 15	1 57	0 98	418	0 09	95	59	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5092	5092	Antelope	co	no	1 47	0 13	1 72	0 59	421	0 07	117	40	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5691	5691	Antelope	co	no	2 40	0 27	5 18	0 82	417	0 05	216	34	0 37	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5694	5694	Antelope	co	no	2 24	0 31	5 21	0 53	416	0 06	233	24	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5697	5697	Antelope	co	no	2 29	0 26	5 94	0 80	420	0 04	259	35	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5700	5700	Antelope	co	no	1 97	0 28	5 67	0 54	422	0 05	288	27	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5821	5821	Antelope	co	no	1 40	0 10	1 88	0 76	423	0 05	134	54	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5824	5824	Antelope	co	no	2 28	0 30	5 56	0 66	416	0 05	244	29	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5827	5827	Antelope	co	no	2 32	0 36	7 84	0 73	419	0 04	338	31	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	5830	5830	Antelope	co	no	2 25	0 33	6 82	0 81	421	0 05	303	36	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	6272	6272	Antelope	co	no	2 70	0 47	10 93	0 79	420	0 04	405	29	--	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	6276	6276	Antelope	co	no	2 86	0 51	12 10	1 09	420	0 04	423	38	0 37	CWSR
X	66	Malley 1	04031007730000	-120 00877	35 82034	6281	6281	Antelope	co	no	3 63	0 36	13 62	0 85	421	0 03	375	23	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7040	7070	Undesignated	cc	no	--	--	--	--	--	--	--	--	0 28	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7100	7130	Undesignated	cc	no	0 21	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7160	7190	Undesignated	cc	no	0 16	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7220	7250	Undesignated	cc	no	0 13	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7280	7310	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7340	7370	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7400	7430	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7460	7490	Undesignated	cc	no	0 12	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7520	7550	Undesignated	cc	no	0 26	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7580	7610	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	0 24	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7640	7670	Undesignated	cc	no	0 23	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7700	7730	Undesignated	cc	no	0 23	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7760	7790	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7820	7850	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7880	7910	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	7940	7970	Undesignated	cc	no	0 41	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8000	8030	Undesignated	cc	no	0 41	--	--	--	--	--	--	--	--	CWSR

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8060	8090	Undesignated	cc	no	0 49	--	--	--	--	--	--	--	0 32	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8120	8150	Undesignated	cc	no	0 55	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8180	8210	Undesignated	cc	no	0 55	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8240	8270	Undesignated	cc	no	0 91	0 03	1 28	1 88	418	0 02	141	207	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8300	8330	Antelope	cc	no	1 43	0 18	5 46	1 95	418	0 03	382	136	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8360	8390	Antelope	cc	no	2 31	0 26	8 97	1 90	422	0 03	388	82	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8420	8450	Antelope	cc	no	2 83	0 12	5 30	2 05	418	0 02	187	72	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8480	8510	Antelope	cc	no	2 21	0 23	6 91	2 37	419	0 03	313	107	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8540	8570	Antelope	cc	no	2 43	0 05	2 76	2 67	421	0 02	114	110	0 43	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8600	8630	Antelope	cc	no	1 63	0 01	2 07	2 65	424	0 00	127	163	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8660	8690	Antelope	cc	no	1 96	0 04	2 47	2 09	420	0 02	126	107	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8720	8750	Antelope	cc	no	1 80	0 04	3 51	1 73	421	0 01	195	96	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8780	8810	Antelope	cc	no	1 76	0 08	2 93	2 05	424	0 03	166	116	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8840	8870	Antelope	cc	no	1 46	0 13	2 12	1 26	431	0 06	145	86	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8900	8930	Antelope	cc	no	1 25	0 07	1 33	1 27	423	0 05	106	102	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	8960	8990	Antelope	cc	no	1 36	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	9020	9050	Undesignated	cc	no	0 91	--	--	--	--	--	--	--	0 41	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	9080	9110	Undesignated	cc	no	0 81	0 04	0 69	1 24	420	0 05	85	153	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	9140	9170	Undesignated	cc	no	0 95	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	9200	9230	Undesignated	cc	no	0 89	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	9260	9290	Undesignated	cc	no	0 85	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	9320	9350	Undesignated	cc	no	0 79	0								

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	10640	10670	Undesignated	cc	no	0 39	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	10700	10730	Undesignated	cc	no	0 45	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	10760	10790	Undesignated	cc	no	0 30	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	10820	10850	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	10880	10910	Undesignated	cc	no	0 20	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	10940	10970	Undesignated	cc	no	0 11	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11000	11030	Undesignated	cc	no	0 17	--	--	--	--	--	--	--	0 56	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11060	11090	Undesignated	cc	no	0 34	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11120	11150	Undesignated	cc	no	0 23	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11180	11210	Undesignated	cc	no	0 78	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11240	11270	Undesignated	cc	no	0 40	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11300	11330	Undesignated	cc	no	0 69	0 07	0 65	1 31	428	0 10	94	190	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11360	11390	Undesignated	cc	no	0 85	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11420	11450	Undesignated	cc	no	0 56	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11480	11510	Undesignated	cc	no	0 65	--	--	--	--	--	--	--	0 40	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11540	11570	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11600	11630	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11660	11690	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11720	11750	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11780	11810	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11840	11870	Undesignated	cc	no	0 74	--	--	--	--	--	--	--	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11900	11930	Tumey	cc	no	0 37	0 19	2 90	1 50	416	0 06	784	405	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	11960	11990	Tumey	cc	no	1 36	0 22	7 23	1 32	419	0 03	532	97	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12020	12050	Kreyenhagen	cc	no	1 89	0 47	21 10	3 25	417	0 02	1116	172	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12080	12110	Kreyenhagen	cc	no	4 64	0 22	6 58	3 61	415	0 03	142	78	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12140	12170	Kreyenhagen	cc	no	3 37	1 12	19 75	2 68	416	0 05	586	80	0 37	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12200	12230	Kreyenhagen	cc	no	3 92	0 39	16 64	2 30	417	0 02	424	59	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12260	12290	Kreyenhagen	cc	no	3 65	0 29	12 49	2 63	417	0 02	342	72	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12320	12350	Kreyenhagen	cc	no	3 42	0 45	12 25	2 09	415	0 04	358	61	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12380	12410	Kreyenhagen	cc	no	3 21	0 29	9 41	2 49	421	0 03	293	78	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12440	12470	Kreyenhagen	cc	no	2 92	0 24	5 34	2 66	421	0 04	183	91	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12500	12530	Kreyenhagen	cc	no	2 37	0 24	6 81	2 46	419	0 03	287	104	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12560	12590	Kreyenhagen	cc	no	2 24	0 29	10 35	2 18	418	0 03	462	97	0 37	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12590	12620	Kreyenhagen	cc	no	2 36	0 17	3 57	1 89	422	0 05	151	80	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12620	12650	Kreyenhagen	cc	no	2 91	0 42	5 05	2 59	422	0 08	174	89	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12710	12740	Kreyenhagen	cc	no	1 70	0 14	3 38	1 87	423	0 04	199	110	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12770	12800	Kreyenhagen	cc	no	1 79	0 14	3 38	1 87	423	0 04	189	104	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12830	12860	Kreyenhagen	cc	no	1 60	0 10	3 04	2 23	427	0 03	190	139	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12890	12920	Kreyenhagen	cc	no	1 74	0 19	6 31	2 02	420	0 03	363	116	0 38	CWSR
	67	Haven 44X-6	04031200850000	-119 95057	36 22078	12950	12980	Undesignated	cc	no	2 10	0 10	1 75	1 55	427	0 05	83	74	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13010	13040	Moreno	cc	no	1 32	0 24	1 86	2 59	427	0 11	141	196	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13070	13100	Moreno	cc	no	1 63	1 30	7 47	3 12	423	0 15	458	191	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13130	13160	Moreno	cc	no	2 74	0 40	4 36	1 81	424	0 08	159	66	0 47	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13190	13220	Moreno	cc	no	1 78	0 25	3 31	2 19	426	0 07	186	123	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13250	13280	Moreno	cc	no	2 53	0 31	7 80	2 41	422	0 04	308	95	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13310	13340	Moreno	cc	no	2 68	0 32	7 64	2 19	420	0 04	285	82	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13370	13400	Moreno	cc	no	2 52	0 26	2 10	1 99	425	0 11	83	79	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13430	13460	Moreno	cc	no	1 36	0 20	2 35	1 79	426	0 08	173	132	--	CWSR
X	67	Haven 44X-6	04031200850000	-119 95057	36 22078	13490	13517	Moreno	cc	no	1 40	0 47	3 23	2 18	426	0 13	231	156	0 43	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	500	560	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	0 32	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	560	620	Undesignated	cc	no	0 23	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	620	680	Undesignated	cc	no	0 22	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	680	740	Undesignated	cc	no	0 21	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	740	800	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	800	860	Undesignated	cc	no	0 27	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	860	920	Undesignated	cc	no	0 26	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	920	980	Undesignated	cc	no	0 23	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	980	1040	Undesignated	cc	no	0 19	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1040	1100	Undesignated	cc	no	0 18	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1100	1160	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1160	1220	Undesignated	cc	no	0 31	--	--	--	--	--	--	--	0 33	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1220	1280	Undesignated	cc	no	0 34	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1280	1340	Undesignated	cc	no	0 40	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1340	1400	Undesignated	cc	no	0 23	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1400	1460	Undesignated	cc	no	0 28	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1460	1520	Undesignated	cc	no	0 43	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1520	1580	Undesignated	cc	no	0 24	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1580	1640	Undesignated	cc	no	0 32	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1640	1700	Undesignated	cc	no	0 32	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1700	1760	Undesignated	cc	no	0 25	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1760	1820	Undesignated	cc	no	0 39	--	--	--	--	--	--	--	0 34	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1820	1880	Undesignated	cc	no	0 64	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1880	1940	Undesignated	cc	no	0 75	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	1940	2000	Undesignated	cc	no	0 55	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	2000	2060	Undesignated	cc	no	0 69	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	2060	2120	Undesignated	cc	no	0 66	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	2120	2180	Undesignated	cc	no	0 84	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	2180	2240	Undesignated	cc	no	1 25	0 02	0 19	1 99	402	0 10	15	159	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	2240	2300	Undesignated	cc	no	1 62	0 05	0 53	1 58	408	0 09	33	98	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	2300	2360	Undesignated	cc	no	0 96	--	--	--	--	--	--	--	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2360	2420	Antelope	cc	no	1 76	0 28	5 03	0 99	408	0 05	286	56	0 43	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2420	2480	Antelope	cc	no	1 68	0 06	0 93	2 04	406	0 06	55	121	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2480	2540	Antelope	cc	no	2 14	0 22	3 18	2 75	405	0 06	149	129	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2540	2600	Antelope	cc	no	1 31	0 17	2 12	1 23	413	0 07	162	94	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2600	2660	Antelope	cc	no	1 46	0 15	1 52	1 40	408	0 09	104	96	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2660	2720	Antelope	cc	no	1 66	0 15	2 13	1 99	412	0 07	128	120	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2720	2780	Antelope	cc	no	2 03	0 22	3 17	1 55	408	0 06	156	76	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2780	2840	Antelope	cc	no	2 15	0 25	4 28	1 54	413	0 06	199	72	0 38	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2840	2900	Antelope	cc	no	1 63	0 10	1 10	2 33	409	0 08	67	143	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2900	2960	Antelope	cc	no	1 87	0 18	2 91	1 45	416	0 06	156	78	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	2960	3020	Antelope	cc	no	1 65	0 19	3 56	1 35	420	0 05	216	82	--	CWSR
X	68	Geyer 1	04031201710000	-120 09526	35 84787	3020	3080	Antelope	cc	no	1 03	0 15	1 58	1 40	419	0 09	153	136	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3080	3140	Undesignated	cc	no	0 57	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3140	3200	Undesignated	cc	no	0 66	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3200	3260	Undesignated	cc	no	1 38	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3260	3320	Undesignated	cc	no	1 03	--	--	--	--	--	--	--	0 37	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3320	3380	Undesignated	cc	no	0 57	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3380	3440	Undesignated	cc	no	0 55	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3440	3500	Undesignated	cc	no	0 70	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3500	3560	Undesignated	cc	no	0 57	0 13	0 79	1 32	412	0 14	139	232	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3560	3620	Undesignated	cc	no	1 23	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3620	3680	Undesignated	cc	no	0 37	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3680	3740	Undesignated	cc	no	0 75	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3740	3800	Undesignated	cc	no	1 07	0 17	0 53	1 35	388	0 24	50	126	0 46	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3800	3860	Undesignated	cc	no	0 47	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3860	3920	Undesignated	cc	no	0 51	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3920	3980	Undesignated	cc	no	0 61	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	3980	4040	Undesignated	cc	no	0 60	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	4040	4100	Undesignated	cc	no	0 48	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	4100	4160	Undesignated	cc	no	0 71	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	4160	4220	Undesignated	cc	no	0 99	0 11	1 06	1 13	424	0 09	107	114	0 44	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	4220	4280	Undesignated	cc	no	0 67	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	4280	4340	Undesignated	cc	no	0 35	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	4340	4400	Undesignated	cc	no	0 70	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	4400	4460	Undesignated	cc	no	0 73	--	--	--	--	--	--	--	--	CWSR
	68	Geyer 1	04031201710000	-120 09526	35 84787	4460	4500	Undesignated	cc	no	1 25	0 08	0 40	1 56	410	0 17	32	125	0 49	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	753	753	Undesignated	co	no	0 21	0 00	0 00	--	--	--	--	--	0 28	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	756	756	Undesignated	co	no	0 19	0 00	0 00	--	--	--	--	--	--	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	759	759	Undesignated	co	no	0 17	0 00	0 00	--	--	--	--	--	--	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	762	762	Undesignated	co	no	0 25	0 00	0 00	--	--	--	--	--	--	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	1250	1250	Undesignated	co	no	0 17	0 02	0 00	--	--	--	--	--	--	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	1253	1253	Undesignated	co	no	0 09	0 00	0 00	--	--	--	--	--	--	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	1256	1256	Undesignated	co	no	0 18	0 00	0 00	--	--	--	--	--	--	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	1825	1825	Undesignated	co	no	0 46	0 02	0 02	--	--	0 50	4	--	0 36	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	2407	2407	Undesignated	co	no	2 13	0 41	5 05	--	--	0 08	237	--	--	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	2410	2410	Undesignated	co	no	2 18	0 31	4 79	--	--	0 06	220	--	--	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	2413	2413	Undesignated	co	no	2 44	0 75	5 53	--	--	0 12	227	--	0 32	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	2657	2657	Undesignated	co	no	2 56	0 71	3 88	--	--	0 15	152	--	0 37	CWSR
69		Chambers 1	04069002310000	-120 97631	36 36667	2660	2660	Undesignated	co	no	2 43	0 69	5 62	--	--	0 11	231	--	--	CWSR

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
	69	Chambers 1	04069002310000	-120 97631	36 36667	2663	2663	Undesignated	co	no	2 13	0 52	6 53	--	--	0 07	307	--	0 34	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	2666	2666	Undesignated	co	no	2 10	0 59	6 46	--	--	0 08	308	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3045	3045	Undesignated	co	no	2 54	1 17	9 88	--	--	0 11	389	--	0 34	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3051	3051	Undesignated	co	no	2 26	2 09	8 59	--	--	0 20	380	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3054	3054	Undesignated	co	no	2 38	1 43	8 70	--	--	0 14	366	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3057	3057	Undesignated	co	no	2 39	1 30	8 02	--	--	0 14	336	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3060	3060	Undesignated	co	no	2 48	1 62	8 02	--	--	0 17	323	--	0 39	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3210	3210	Undesignated	co	no	2 37	1 71	7 62	--	--	0 18	322	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3213	3213	Undesignated	co	no	2 35	1 51	5 45	--	--	0 22	232	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3216	3216	Undesignated	co	no	2 35	1 23	6 47	--	--	0 16	275	--	0 40	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3219	3219	Undesignated	co	no	2 19	1 07	8 13	--	--	0 12	371	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3221	3221	Undesignated	co	no	2 27	2 13	9 68	--	--	0 18	426	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	3224	3224	Undesignated	co	no	2 28	1 22	9 00	--	--	0 12	395	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	4480	4480	Undesignated	co	no	1 03	0 17	3 05	--	--	0 05	296	--	--	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	4483	4483	Undesignated	co	no	1 03	0 25	3 19	--	--	0 07	310	--	0 38	CWSR
	69	Chambers 1	04069002310000	-120 97631	36 36667	4486	4486	Undesignated	co	no	1 23	0 15	3 50	--	--	0 04	285	--	0 43	CWSR
	70	Florence A-1	04079001130000	-119 76451	35 02681	549	549	Undesignated	co	no	1 19	0 36	0 51	0 79	473	0 41	43	66	--	CWSR
	70	Florence A-1	04079001130000	-119 76451	35 02681	549	549	Undesignated	co	no	1 17	< 0 10	0 35	0 63	473	--	30	54	--	CWSR
	70	Florence A-1	04079001130000	-119 76451	35 02681	1298	1298	Undesignated	co	no	0 98	< 0 10	< 0 10	0 48	--	--	--	49	--	CWSR
	70	Florence A-1	04079001130000	-119 76451	35 02681	1298	1298	Undesignated	co	no	1 03	< 0 10	< 0 10	0 31	--	--	--	30	--	CWSR
	70	Florence A-1	04079001130000	-119 76451	35 02681	3100	3100	Undesignated	co	no	0 84	< 0 10	0 27	0 28	428	--	32	33	--	CWSR
	70	Florence A-1	04079001130000	-119 76451	35 02681	3100	3100	Undesignated	co	no	0 86	0 12	0 28	0 34	427	0 30	33	40	--	CWSR
	71	Ferguson 41-13	04079004560000	-120 10203	35 31563	8284	8301	Undesignated	cc	no	0 79	0 13	2 54	0 31	429	0 05	322	39	--	CWSR
	71	Ferguson 41-13	04079004560000	-120 10203	35 31563	8284	8301	Undesignated	cc	no	0 66	< 0 10	1 95	0 34	427	--	295	52	--	CWSR
	71	Ferguson 41-13	04079004560000	-120 10203	35 31563	8573	8583	Undesignated	cc	no	2 10	0 58	8 32	0 28	429	0 07	396	13	--	CWSR
	71	Ferguson 41-13	04079004560000	-120 10203	35 31563	8573	8583	Undesignated	cc	no	1 88	< 0 10	0 88	0 52	426	--	47	28	--	CWSR
	72	Foster KCL 1	04079004950000	-119 78106	35 16798	2270	2310	Undesignated	cc	no	1 90	0 37	3 79	1 41	427	0 09	199	74	--	CWSR
	72	Foster KCL 1	04079004950000	-119 78106	35 16798	2270	2310	Undesignated	cc	no	1 72	< 0 10	2 37	1 42	425	--	138	83	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	269	269	Moreno	co	no	1 61	0 24	1 65	1 72	398	0 13	102	107	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	279	279	Moreno	co	no	1 96	0 39	3 16	1 36	413	0 11	161	69	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	285	285	Moreno	co	no	1 66	0 26	1 15	1 66	396	0 18	69	100	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	292	292	Moreno	co	no	1 88	0 24	1 33	2 31	407	0 15	71	123	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	302	302	Moreno	co	no	1 72	0 31	1 32	2 29	408	0 19	77	133	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	312	312	Moreno	co	no	2 84	0 35	3 26	3 61	406	0 10	115	127	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	321	321	Moreno	co	no	2 32	0 38	1 87	3 09	401	0 17	81	133	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	331	331	Moreno	co	no	2 91	0 69	6 35	1 48	405	0 10	218	51	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	341	341	Moreno	co	no	0 57	0 15	0 87	0 15	423	0 15	153	26	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	351	351	Moreno	co	no	2 68	0 80	6 08	1 34	407	0 12	227	50	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	361	361	Moreno	co	no	1 84	0 63	3 64	1 07	415	0 15	198	58	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	371	371	Moreno	co	no	2 67	0 63	5 14	1 59	420	0 11	193	60	--	CWSR
X	73	Dos Palos corehole 3	--	-120 68403	36 64375	380	380	Moreno	co	no	2 40	0 70	4 71	1 44	414	0 13	196	60	--	CWSR
X	74	Shafter C-1	04029724650000	-119 29611	35 54405	8100	8100	Antelope	co	no	2 14	? eq TOC	4 14	1 51	426	--	193	71	--	Gr
X	74	Shafter C-1	04029724650000	-119 29611	35 54405	8300	8300	Antelope	co	no	1 84	? eq TOC	4 71	1 05	425	--	256	57	--	Gr

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	74	Shafter C-1	04029724650000	-119 29611	35 54405	8400	8400	Antelope	co	no	2 12	? eq TOC	5 61	1 55	423	--	265	73	--	Gr
X	74	Shafter C-1	04029724650000	-119 29611	35 54405	8500	8500	Antelope	co	no	3 33	? eq TOC	10 30	2 33	419	--	309	70	--	Gr
X	74	Shafter C-1	04029724650000	-119 29611	35 54405	8600	8600	Antelope	co	no	7 34	? eq TOC	10 59	14 21	413	--	144	194	--	Gr
X	74	Shafter C-1	04029724650000	-119 29611	35 54405	8700	8700	Antelope	co	no	4 34	? eq TOC	23 58	1 23	418	--	543	28	--	Gr
X	74	Shafter C-1	04029724650000	-119 29611	35 54405	8760	8760	Antelope	co	no	4 75	? eq TOC	17 44	3 99	420	--	367	84	--	Gr
X	75	Shafter B-1	04029679810000	-119 26759	35 52228	7555	7555	Antelope	co	no	2 24	0 35	4 62	1 32	417	0 07	206	59	--	Gr
X	75	Shafter B-1	04029679810000	-119 26759	35 52228	7645	7645	Antelope	co	no	1 98	0 45	3 18	1 38	412	0 12	161	70	--	Gr
X	75	Shafter B-1	04029679810000	-119 26759	35 52228	7765	7765	Antelope	co	no	2 74	1 44	8 17	1 36	418	0 15	298	50	--	Gr
X	75	Shafter B-1	04029679810000	-119 26759	35 52228	7865	7865	Antelope	co	no	4 53	0 82	12 02	1 96	413	0 06	265	43	--	Gr
X	75	Shafter B-1	04029679810000	-119 26759	35 52228	7975	7975	Antelope	co	no	4 19	0 83	12 63	1 56	414	0 06	301	37	--	Gr
X	75	Shafter B-1	04029679810000	-119 26759	35 52228	8065	8065	Antelope	co	no	3 32	0 63	9 22	1 56	409	0 06	278	47	--	Gr
X	75	Shafter B-1	04029679810000	-119 26759	35 52228	8155	8155	Antelope	co	no	4 25	0 60	10 55	1 87	410	0 05	248	44	--	Gr
X	75	Shafter B-1	04029679810000	-119 26759	35 52228	8245	8245	Antelope	co	no	3 14	0 36	4 01	1 91	417	0 08	128	61	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	7570	7570	Antelope	co	no	1 07	0 05	1 72	0 96	430	0 03	161	90	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	7690	7690	Antelope	co	no	1 07	0 03	1 47	0 94	429	0 02	137	88	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	7810	7810	Antelope	co	no	1 21	0 05	1 94	0 80	428	0 03	160	66	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	7930	7930	Antelope	co	no	1 63	0 08	3 34	0 78	428	0 02	205	48	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	8050	8050	Antelope	co	no	1 92	0 25	3 46	1 71	426	0 07	180	89	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	8170	8170	Antelope	co	no	1 65	0 14	4 13	1 02	423	0 03	250	62	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	8290	8290	Antelope	co	no	2 28	0 21	7 47	1 08	423	0 03	328	47	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	8410	8410	Antelope	co	no	2 03	0 24	5 23	1 08	423	0 04	258	53	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	8530	8530	Antelope	co	no	2 93	0 34	8 32	1 68	422	0 04	284	57	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	8650	8650	Antelope	co	no	3 28	0 33	7 00	2 25	423	0 05	213	69	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	8770	8770	Antelope	co	no	2 93	0 52	7 99	2 36	421	0 06	273	81	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	8890	8890	Antelope	co	no	3 40	0 63	13 06	1 72	421	0 05	384	51	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	9010	9010	Antelope	co	no	4 49	1 64	21 85	1 49	419	0 07	487	33	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	9130	9130	Antelope	co	no	4 45	1 20	22 86	1 37	419	0 05	514	31	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	9250	9250	Antelope	co	no	3 47	0 75	15 83	1 42	423	0 05	456	41	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	9370	9370	Antelope	co	no	2 87	0 63	12 00	1 42	423	0 05	418	49	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	9490	9490	Antelope	co	no	2 89	0 54	12 73	1 37	425	0 04	440	47	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	9610	9610	Antelope	co	no	2 17	0 24	9 60	1 31	424	0 02	442	60	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	9730	9730	Antelope	co	no	3 86	1 52	14 34	6 30	428	0 10	372	163	--	Gr
X	76	Kernco 11-34	04029649560000	-119 27669	35 45534	9850	9850	Antelope	co	no	1 39	0 49	4 55	3 11	427	0 10	327	224	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	10500	10500	Antelope	co	no	2 84	0 69	8 59	2 51	430	0 07	302	88	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	10600	10600	Antelope	co	no	5 40	0 94	17 89	5 57	429	0 05	331	103	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	10700	10700	Antelope	co	no	3 14	0 63	9 79	3 33	435	0 06	312	106	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	10800	10800	Antelope	co	no	3 31	1 57	15 63	2 01	432	0 09	472	61	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	10900	10900	Antelope	co	no	2 91	0 55	9 39	3 06	433	0 06	323	105	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11000	11000	Antelope	co	no	5 06	1 02	15 90	5 55	428	0 06	314	110	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11100	11100	Antelope	co	no	4 59	1 40	16 57	3 39	431	0 08	361	74	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11200	11200	Antelope	co	no	3 37	0 86	11 89	2 75	431	0 07	353	82	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11300	11300	Antelope	co	no	3 17	0 66	8 65	3 36	433	0 07	273	106	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11400	11400	Antelope	co	no	2 80	0 74	8 63	2 97	429	0 08	308	106	--	Gr

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11500	11500	Antelope	co	no	2 80	0 58	7 67	2 96	432	0 07	274	106	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11600	11600	Antelope	co	no	2 44	0 84	9 01	1 74	431	0 09	369	71	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11700	11700	Antelope	co	no	1 29	0 29	2 00	2 16	431	0 13	155	167	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11800	11800	Antelope	co	no	1 46	0 34	3 53	1 46	435	0 09	242	100	--	Gr
X	77	North Coles Levee 26-29	04029606500000	-119 32004	35 28647	11900	11900	Antelope	co	no	1 33	0 36	2 68	1 79	434	0 12	202	135	--	Gr
X	78	Paloma 81X-3	04029749810000	-119 16403	35 17935	10800	10800	Antelope	co	no	1 22	0 07	1 63	1 78	429	0 04	134	146	--	Gr
X	78	Paloma 81X-3	04029749810000	-119 16403	35 17935	10900	10900	Antelope	co	no	1 07	0 10	2 00	1 46	428	0 05	187	136	--	Gr
X	78	Paloma 81X-3	04029749810000	-119 16403	35 17935	10980	10980	Antelope	co	no	1 30	0 16	3 63	1 31	430	0 04	279	101	--	Gr
X	78	Paloma 81X-3	04029749810000	-119 16403	35 17935	11160	11160	Antelope	co	no	5 96	1 04	36 56	1 17	427	0 03	613	20	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	1600	1600	Antelope	co	no	5 28	6 24	24 11	2 28	401	0 21	457	43	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	1700	1700	Antelope	co	no	2 85	2 95	14 42	2 24	405	0 17	506	79	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	1800	1800	Antelope	co	no	3 06	4 22	17 38	2 79	406	0 20	568	91	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	1900	1900	Antelope	co	no	4 13	3 97	23 96	3 40	405	0 14	580	82	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	2000	2000	Antelope	co	no	3 08	5 23	20 71	2 39	405	0 20	672	78	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	2100	2100	Antelope	co	no	3 76	1 66	8 51	5 78	417	0 16	226	154	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	2200	2200	Antelope	co	no	2 42	2 97	11 88	2 68	405	0 20	491	111	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	2300	2300	Antelope	co	no	3 26	3 21	13 78	3 53	409	0 19	423	108	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	2500	2500	Antelope	co	no	3 04	3 16	15 33	3 77	407	0 17	504	124	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	2600	2600	Antelope	co	no	3 58	2 48	16 44	5 22	415	0 13	459	146	--	Gr
X	79	Santiago A 72-30	04029623400000	-119 26237	35 01537	2700	2700	Antelope	co	no	2 62	2 89	17 78	4 52	410	0 14	679	173	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1080	1080	Antelope	co	no	3 44	2 99	12 13	4 17	408	0 20	353	121	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1240	1240	Antelope	co	no	3 02	2 47	10 18	3 82	408	0 20	337	126	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1320	1320	Antelope	co	no	3 67	3 27	13 51	4 30	408	0 19	368	117	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1400	1400	Antelope	co	no	6 59	6 97	26 15	6 84	407	0 21	397	104	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1480	1480	Antelope	co	no	3 45	3 38	13 56	4 32	417	0 20	393	125	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1640	1640	Antelope	co	no	3 10	4 61	12 29	3 12	412	0 27	396	101	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1720	1720	Antelope	co	no	4 23	4 98	16 11	4 56	412	0 24	381	108	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1800	1800	Antelope	co	no	6 33	6 17	24 56	6 32	410	0 20	388	100	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1880	1880	Antelope	co	no	3 18	2 20	11 40	4 02	414	0 16	358	126	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	1960	1960	Antelope	co	no	3 49	1 99	11 17	4 58	413	0 15	320	131	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	2200	2200	Antelope	co	no	3 59	2 21	14 91	3 78	413	0 13	415	105	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	2280	2280	Antelope	co	no	2 46	1 20	6 79	5 73	418	0 15	276	233	--	Gr
X	80	Pioneer 1	04029361530000	-119 25645	34 99837	2360	2360	Antelope	co	no	3 79	2 03	13 05	4 67	418	0 13	344	123	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	9300	9300	Antelope	co	no	3 75	0 69	18 15	0 78	421	0 04	484	21	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	9400	9400	Antelope	co	no	3 60	0 55	14 10	1 11	425	0 04	392	31	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	9500	9500	Antelope	co	no	3 01	0 65	12 76	0 68	424	0 05	424	23	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	9600	9600	Antelope	co	no	2 85	0 39	10 91	0 71	420	0 03	383	25	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	9700	9700	Antelope	co	no	2 11	0 62	10 78	1 87	425	0 05	511	89	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	9800	9800	Antelope	co	no	1 90	0 45	8 41	0 57	425	0 05	443	30	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	9900	9900	Antelope	co	no	2 16	0 57	10 18	0 54	424	0 05	471	25	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10000	10000	Antelope	co	no	1 77	0 37	8 29	0 53	426	0 04	468	30	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10100	10100	Antelope	co	no	3 37	0 92	17 36	0 88	424	0 05	515	26	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10200	10200	Antelope	co	no	3 38	1 34	17 16	1 30	421	0 07	508	38	--	Gr

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10300	10300	Antelope	co	no	1 95	0 21	7 95	0 76	423	0 03	408	39	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10400	10400	Antelope	co	no	2 88	1 04	15 98	0 78	422	0 06	555	27	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10500	10500	Antelope	co	no	3 79	0 84	19 94	0 89	421	0 04	526	23	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10600	10600	Antelope	co	no	0 89	0 17	2 73	0 95	425	0 06	307	107	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10700	10700	Antelope	co	no	1 97	0 45	9 05	0 92	426	0 05	459	47	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10800	10800	Antelope	co	no	3 51	1 45	18 22	1 69	424	0 07	519	48	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	10900	10900	Antelope	co	no	2 13	0 64	10 43	1 13	426	0 06	490	53	--	Gr
X	81	Maricopa Flats 47X-7	04029679820000	-119 27071	35 04900	11000	11000	Antelope	co	no	3 66	1 60	17 77	1 52	426	0 08	486	42	--	Gr
X	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	13500	13500	Antelope	co	no	1 41	0 40	5 25	0 41	428	0 07	372	29	--	Gr
X	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	13600	13600	Antelope	co	no	2 27	0 53	5 75	1 10	427	0 08	253	48	--	Gr
X	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	13700	13700	Antelope	co	no	4 42	0 66	6 99	0 89	428	0 09	158	20	--	Gr
X	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	13800	13800	Antelope	co	no	2 13	0 63	14 28	3 52	425	0 04	670	165	--	Gr
X	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	13900	13900	Antelope	co	no	2 71	0 71	9 21	0 99	429	0 07	340	37	--	Gr
X	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	14000	14000	Antelope	co	no	3 13	0 31	14 51	1 43	427	0 02	464	46	--	Gr
X	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	14100	14100	Antelope	co	no	2 59	0 28	12 49	1 30	427	0 02	482	50	--	Gr
	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	16700	16700	Undesignated	co	no	0 34	0 16	0 41	0 30	438	0 28	121	88	--	Gr
	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	16800	16800	Undesignated	co	no	0 32	0 15	0 30	0 31	433	0 33	94	97	--	Gr
	82	Texaco 21X-13	04029497230000	-119 18495	35 04625	16900	16900	Undesignated	co	no	0 65	0 11	0 40	0 51	432	0 22	62	78	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	11265	11265	Antelope	co	no	1 04	0 21	1 87	2 79	428	0 10	180	268	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	11365	11365	Antelope	co	no	0 96	0 13	1 90	1 73	432	0 06	198	180	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	11445	11445	Antelope	co	no	1 16	0 30	2 67	3 13	430	0 10	230	270	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	11565	11565	Antelope	co	no	1 80	0 35	6 19	2 01	428	0 05	344	112	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	11665	11665	Antelope	co	no	2 77	0 61	11 50	1 92	424	0 05	415	69	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	11745	11745	Antelope	co	no	2 56	0 47	9 70	2 06	425	0 05	379	80	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	11835	11835	Antelope	co	no	3 17	0 67	12 52	1 68	426	0 05	395	53	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	11955	11955	Antelope	co	no	2 50	0 52	9 18	2 18	427	0 05	367	87	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	12045	12045	Antelope	co	no	3 56	0 50	11 28	3 05	427	0 04	317	86	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	12165	12165	Antelope	co	no	2 93	0 85	12 55	1 66	426	0 06	428	57	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	12255	12255	Antelope	co	no	3 00	0 69	15 77	1 10	427	0 04	526	37	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	12345	12345	Antelope	co	no	2 54	0 38	9 42	1 78	429	0 04	371	70	--	Gr
X	83	Channel 38X-6	04029760610000	-119 16510	35 06332	12465	12465	Antelope	co	no	3 70	0 78	15 04	1 94	427	0 05	406	52	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	15080	15080	Antelope	co	no	1 05	0 25	4 06	0 24	425	0 06	387	23	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	15170	15170	Antelope	co	no	1 37	0 67	6 40	0 30	426	0 09	467	22	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	15260	15260	Antelope	co	no	1 27	0 41	5 41	0 20	429	0 07	426	16	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	15620	15620	Antelope	co	no	1 85	0 57	6 76	0 47	429	0 08	365	25	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	15710	15710	Antelope	co	no	1 21	0 41	3 96	0 45	427	0 09	327	37	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	15800	15800	Antelope	co	no	1 95	0 94	9 38	0 56	428	0 09	481	29	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	16140	16140	Antelope	co	no	2 21	0 78	10 40	1 35	430	0 07	471	61	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	16230	16230	Antelope	co	no	1 75	0 55	6 37	1 45	430	0 08	364	83	--	Gr
X	84	Tenneco 27X-26	04029553270000	-119 09727	35 09270	16320	16320	Antelope	co	no	1 75	0 38	7 55	1 30	424	0 05	431	74	--	Gr
	85	General American 81-4K	04029076510000	-119 33165	35 07536	5280	5280	Undesignated	co	no	0 68	0 20	1 04	0 77	412	0 16	153	113	--	Gr
	85	General American 81-4K	04029076510000	-119 33165	35 07536	5370	5370	Undesignated	co	no	1 78	0 61	0 85	3 63	420	0 42	48	204	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	5460	5460	Antelope	co	no	2 62	0 68	5 31	3 17	418	0 11	203	121	--	Gr

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	5550	5550	Antelope	co	no	2 81	0 90	7 77	2 16	413	0 10	277	77	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	5640	5640	Antelope	co	no	2 63	0 75	7 31	2 48	418	0 09	278	94	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	5730	5730	Antelope	co	no	3 27	1 05	11 04	2 42	419	0 09	338	74	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	5820	5820	Antelope	co	no	2 38	0 63	6 17	2 31	422	0 09	259	97	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	5910	5910	Antelope	co	no	2 01	0 74	6 65	1 70	421	0 10	331	85	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6000	6000	Antelope	co	no	3 86	0 97	12 90	2 22	419	0 07	334	58	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6090	6090	Antelope	co	no	1 94	0 81	5 60	1 43	423	0 13	289	74	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6180	6180	Antelope	co	no	3 61	1 72	13 77	1 74	420	0 11	381	48	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6270	6270	Antelope	co	no	3 23	1 21	13 47	1 88	419	0 08	417	58	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6360	6360	Antelope	co	no	3 27	1 39	14 10	1 78	419	0 09	431	54	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6450	6450	Antelope	co	no	3 26	1 28	14 88	1 74	419	0 08	456	53	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6540	6540	Antelope	co	no	2 30	1 29	10 37	1 19	419	0 11	451	52	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6630	6630	Antelope	co	no	2 34	1 14	10 77	1 26	422	0 10	460	54	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6720	6720	Antelope	co	no	2 18	0 81	7 60	1 80	420	0 10	349	83	--	Gr
X	85	General American 81-4K	04029076510000	-119 33165	35 07536	6900	6900	Antelope	co	no	2 05	0 55	6 20	1 95	422	0 08	302	95	--	Gr
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	3995	3995	Kreyenhagen	co	no	1 29	0 33	1 99	1 08	410	0 14	154	84	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4013	4013	Kreyenhagen	co	no	2 23	0 58	7 73	1 48	421	0 07	347	66	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4031	4031	Kreyenhagen	co	no	1 35	0 29	1 69	1 14	412	0 15	125	84	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4549	4549	Kreyenhagen	co	no	5 49	0 85	25 89	4 98	414	0 03	472	91	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4594	4594	Kreyenhagen	co	no	5 44	0 98	27 87	3 52	414	0 03	512	65	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4610	4610	Kreyenhagen	co	no	3 48	0 43	11 98	3 32	412	0 03	344	95	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4646	4646	Kreyenhagen	co	no	3 84	0 89	20 16	2 92	415	0 04	525	76	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4705	4705	Kreyenhagen	co	no	3 28	0 69	12 34	2 47	419	0 05	376	75	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4748	4748	Kreyenhagen	co	no	1 46	0 37	3 29	1 18	429	0 10	225	81	--	Mi
X	86	Jacalitos 67	04019051880000	-120 36621	36 09563	4785	4785	Kreyenhagen	co	no	0 25	0 08	0 25	0 45	416	0 24	100	180	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	8325	8325	Kreyenhagen	co	no	2 65	1 40	14 25	0 74	432	0 09	538	28	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	8612	8612	Kreyenhagen	co	no	4 98	1 71	24 99	1 52	430	0 06	502	31	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	8997	8997	Kreyenhagen	co	no	2 09	0 81	9 24	0 71	434	0 08	442	34	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	9017	9017	Kreyenhagen	co	no	1 03	0 59	2 39	0 59	437	0 20	232	57	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	9057	9057	Kreyenhagen	co	no	1 74	0 76	6 54	0 84	435	0 10	376	48	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	9077	9077	Kreyenhagen	co	no	1 96	1 46	7 70	0 76	437	0 16	393	39	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	9195	9195	Kreyenhagen	co	no	1 57	0 22	1 85	1 04	432	0 11	118	66	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	9537	9537	Kreyenhagen	co	no	1 04	0 34	2 20	0 54	437	0 13	212	52	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	9540	9540	Kreyenhagen	co	no	2 20	0 55	8 61	0 73	435	0 06	391	33	--	Mi
X	87	Williamson 33	04029175400000	-119 78958	35 68265	9646	9646	Undesignated	co	no	1 03	0 23	2 59	0 62	440	0 08	251	60	--	Mi
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4200	4230	Antelope	cc	no	0 31	0 06	0 81	0 26	440	0 07	261	84	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4230	4260	Antelope	cc	no	0 14	0 06	0 41	0 00	408	0 13	293	0	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4260	4290	Antelope	cc	no	0 12	0 05	0 25	0 00	408	0 17	208	0	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4290	4320	Antelope	cc	no	0 14	0 03	0 22	0 00	405	0 12	157	0	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4320	4350	Antelope	cc	no	0 26	0 08	0 50	0 17	406	0 14	192	65	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4350	4380	Antelope	cc	no	0 26	0 12	0 51	0 33	411	0 19	196	127	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4380	4410	Antelope	cc	no	0 19	0 15	0 49	0 19	391	0 23	258	100	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4410	4440	Antelope	cc	no	0 19	0 07	0 37	0 16	402	0 16	195	84	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4440	4470	Antelope	cc	no	0 26	0 13	0 82	0 20	407	0 14	315	77	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4470	4500	Antelope	cc	no	0 25	0 10	0 62	0 22	404	0 14	248	88	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4500	4530	Antelope	cc	no	0 38	0 12	1 74	0 25	434	0 06	458	66	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4530	4560	Antelope	cc	no	0 19	0 07	0 30	0 11	401	0 19	158	58	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4560	4590	Antelope	cc	no	0 27	0 14	0 71	0 19	398	0 16	263	70	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4590	4620	Antelope	cc	no	0 28	0 11	0 61	0 16	399	0 15	218	57	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4620	4650	Antelope	cc	no	0 34	0 14	0 99	0 24	405	0 12	291	71	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4650	4680	Antelope	cc	no	0 31	0 13	0 74	0 29	403	0 15	239	94	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4680	4710	Antelope	cc	no	0 16	0 06	0 26	0 19	397	0 19	163	119	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4740	4770	Antelope	cc	no	0 42	0 17	1 09	0 31	407	0 13	260	74	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4770	4800	Antelope	cc	no	0 25	0 14	0 82	0 29	409	0 15	328	116	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4800	4830	Antelope	cc	no	0 58	0 20	1 74	0 23	415	0 10	300	40	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4830	4860	Antelope	cc	no	0 79	0 26	2 57	0 09	414	0 09	325	11	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4860	4890	Antelope	cc	no	1 12	0 36	3 87	0 22	412	0 09	346	20	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4890	4920	Antelope	cc	no	1 09	0 30	3 52	0 32	418	0 08	323	29	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4920	4950	Antelope	cc	no	0 99	0 32	3 14	0 25	410	0 09	317	25	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4950	4980	Antelope	cc	no	0 98	0 34	3 25	0 19	422	0 09	332	19	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	4980	5010	Antelope	cc	no	1 56	3 03	5 46	0 45	413	0 36	350	29	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5010	5040	Antelope	cc	no	1 59	3 16	7 24	0 59	421	0 30	455	37	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5040	5070	Antelope	cc	no	1 39	1 14	4 83	0 49	416	0 19	347	35	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5070	5100	Antelope	cc	no	1 80	1 94	8 19	0 41	419	0 19	455	23	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5100	5130	Antelope	cc	no	1 60	0 63	6 00	0 66	418	0 10	375	41	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5130	5160	Antelope	cc	no	1 51	1 66	6 20	0 48	414	0 21	411	32	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5160	5190	Antelope	cc	no	1 33	0 58	6 03	0 51	419	0 09	453	38	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5190	5220	Antelope	cc	no	1 82	2 45	7 86	0 62	418	0 24	432	34	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5220	5250	Antelope	cc	no	2 38	4 37	11 76	0 60	417	0 27	494	25	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5250	5280	Antelope	cc	no	2 79	3 30	15 62	0 79	412	0 17	560	28	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5280	5310	Antelope	cc	no	1 71	1 15	8 01	0 41	416	0 13	468	24	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5310	5320	Antelope	cc	no	1 86	1 63	9 27	0 68	417	0 15	498	37	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5320	5350	Antelope	cc	no	2 24	1 80	13 48	0 61	414	0 12	602	27	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5340	5370	Antelope	cc	no	1 66	1 86	9 00	0 35	416	0 17	542	21	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5370	5400	Antelope	cc	no	1 15	0 39	5 71	0 40	425	0 06	497	35	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5400	5430	Antelope	cc	no	1 10	1 35	5 47	0 47	422	0 20	497	43	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5430	5460	Antelope	cc	no	1 32	1 12	5 99	0 56	422	0 16	454	42	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5460	5490	Antelope	cc	no	3 22	2 65	16 17	0 68	417	0 14	502	21	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5490	5520	Antelope	cc	no	3 14	2 76	18 54	0 53	417	0 13	590	17	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5550	5580	Antelope	cc	no	2 80	1 55	11 19	1 28	418	0 12	400	46	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5580	5610	Antelope	cc	no	3 84	2 36	19 42	0 61	411	0 11	506	16	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5610	5640	Antelope	cc	no	4 00	2 98	18 50	0 66	417	0 14	463	17	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5620	5650	Antelope	cc	no	2 89	1 91	16 75	0 40	416	0 10	580	14	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5640	5680	Antelope	cc	no	3 09	2 22	15 21	0 55	416	0 13	492	18	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5670	5700	Antelope	cc	no	4 83	2 72	28 64	0 59	413	0 09	593	12	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5700	5730	Antelope	cc	no	4 18	2 75	22 73	0 53	415	0 11	544	13	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5730	5760	Antelope	cc	no	2 27	2 01	11 07	0 39	418	0 15	488	17	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5760	5790	Antelope	cc	no	3 33	2 36	18 13	0 39	415	0 12	544	12	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5790	5820	Antelope	cc	no	1 27	0 86	5 06	0 59	417	0 15	398	46	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5820	5850	Antelope	cc	no	3 44	2 13	16 69	0 64	415	0 11	485	19	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5850	5880	Antelope	cc	no	3 23	2 58	18 45	0 44	416	0 12	571	14	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5880	5910	Antelope	cc	no	3 38	2 69	19 28	0 40	417	0 12	570	12	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5910	5940	Antelope	cc	no	2 59	2 24	13 93	0 34	418	0 14	538	13	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5940	5970	Antelope	cc	no	1 16	1 18	5 86	0 35	414	0 17	505	30	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	5970	6000	Antelope	cc	no	3 53	2 50	18 05	0 47	421	0 12	511	13	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6000	6030	Antelope	cc	no	2 20	2 64	13 64	0 52	418	0 16	620	24	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6030	6060	Antelope	cc	no	3 49	6 57	17 45	0 50	419	0 27	500	14	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6060	6090	Antelope	cc	no	2 40	4 50	12 00	0 67	421	0 27	500	28	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6120	6150	Antelope	cc	no	1 94	1 96	10 54	0 78	417	0 16	543	40	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6180	6210	Antelope	cc	no	1 58	2 40	6 79	0 83	421	0 26	430	53	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6240	6270	Antelope	cc	no	2 46	4 04	12 75	0 73	417	0 24	518	30	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6300	6330	Antelope	cc	no	2 97	7 41	14 60	0 55	419	0 34	492	19	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6360	6390	Antelope	cc	no	3 51	5 92	17 90	0 48	421	0 25	510	14	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6420	6450	Antelope	cc	no	3 35	3 50	17 25	0 51	420	0 17	515	15	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6480	6510	Antelope	cc	no	2 93	4 68	16 30	0 51	419	0 22	556	17	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6540	6570	Antelope	cc	no	3 29	5 66	18 92	0 34	415	0 23	575	10	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6570	6600	Antelope	cc	no	3 73	1 97	23 38	0 68	418	0 08	627	18	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6600	6630	Antelope	cc	no	4 07	1 81	25 38	0 41	420	0 07	624	10	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6630	6660	Antelope	cc	no	3 24	2 78	18 97	0 55	419	0 13	585	17	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6660	6690	Antelope	cc	no	1 57	1 26	6 71	1 34	426	0 16	427	85	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6720	6750	Antelope	cc	no	2 55	1 38	13 71	0 57	423	0 09	538	22	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6780	6810	Antelope	cc	no	2 26	1 03	11 41	0 58	422	0 08	505	26	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6840	6870	Antelope	cc	no	2 04	0 94	10 69	0 53	421	0 08	524	26	--	Ja
X	88	Bear Valley 1	04029871460000	-119 56737	35 28079	6900	6930	Antelope	cc	no	1 73	1 32	8 54	0 49	421	0 13	494	28	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2080	2110	Antelope	cc	no	1 63	0 36	4 49	0 84	430	0 07	275	52	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2110	2140	Antelope	cc	no	1 66	0 32	4 39	0 84	428	0 07	264	51	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2140	2170	Antelope	cc	no	0 92	0 26	1 18	1 17	427	0 18	128	127	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2170	2200	Antelope	cc	no	0 75	0 27	0 81	0 62	423	0 25	108	83	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2230	2260	Antelope	cc	no	0 61	0 06	0 28	0 60	418	0 18	46	98	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2290	2320	Antelope	cc	no	0 71	0 08	0 42	0 54	418	0 16	59	76	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2320	2350	Antelope	cc	no	0 49	0 10	0 36	0 61	426	0 22	73	124	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2380	2410	Antelope	cc	no	0 46	0 09	0 39	0 46	421	0 19	85	100	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2410	2440	Antelope	cc	no	0 56	0 12	0 56	0 54	418	0 18	100	96	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2470	2500	Antelope	cc	no	0 84	0 20	1 68	0 62	429	0 11	200	74	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2500	2530	Antelope	cc	no	0 50	0 14	0 66	0 45	423	0 18	132	90	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	2650	2680	Antelope	cc	no	0 43	0 07	0 21	0 55	409	0 25	49	128	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	3790	3820	Antelope	cc	no	0 88	0 18	1 10	0 74	409	0 14	125	84	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	3820	3850	Antelope	cc	no	3 36	3 55	11 16	1 54	408	0 24	332	46	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	3850	3880	Antelope	cc	no	4 27	6 83	18 38	1 76	408	0 27	430	41	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4540	4570	Antelope	cc	no	1 60	0 96	5 80	0 90	408	0 14	363	56	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4570	4600	Antelope	cc	no	2 00	1 17	7 31	1 16	411	0 14	366	58	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4600	4630	Antelope	cc	no	2 20	1 26	8 77	1 26	413	0 13	399	57	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4630	4660	Antelope	cc	no	2 13	0 69	7 99	1 19	417	0 08	375	56	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4660	4690	Antelope	cc	no	1 96	0 41	6 58	0 81	413	0 06	336	41	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4690	4720	Antelope	cc	no	2 40	0 64	6 31	0 88	405	0 09	263	37	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4720	4750	Antelope	cc	no	2 39	0 57	8 05	1 02	410	0 07	337	43	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4750	4780	Antelope	cc	no	2 91	0 48	8 76	1 07	414	0 05	301	37	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4780	4810	Antelope	cc	no	2 09	0 61	6 82	0 85	408	0 08	326	41	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4810	4840	Antelope	cc	no	2 04	0 41	5 47	0 70	408	0 07	268	34	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4840	4870	Antelope	cc	no	1 88	0 30	5 85	0 84	410	0 05	311	45	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4870	4900	Antelope	cc	no	2 87	0 53	10 09	1 24	414	0 05	352	43	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4900	4930	Antelope	cc	no	2 48	0 48	10 31	0 98	413	0 04	416	40	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4930	4960	Antelope	cc	no	3 13	0 75	11 08	1 49	413	0 06	354	48	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4960	4990	Antelope	cc	no	2 50	0 56	8 36	1 40	410	0 06	334	56	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	4990	5020	Antelope	cc	no	2 17	0 63	8 27	1 10	414	0 07	381	51	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5020	5050	Antelope	cc	no	1 88	0 25	5 52	1 10	414	0 04	294	59	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5050	5080	Antelope	cc	no	2 74	0 52	11 04	1 37	417	0 04	403	50	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5080	5110	Antelope	cc	no	2 43	0 39	7 82	1 57	415	0 05	322	65	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5110	5140	Antelope	cc	no	2 83	0 46	9 10	1 40	413	0 05	322	49	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5140	5170	Antelope	cc	no	2 84	0 54	11 95	1 43	416	0 04	421	50	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5170	5200	Antelope	cc	no	2 73	0 42	11 04	0 85	416	0 04	404	31	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5200	5230	Antelope	cc	no	2 75	0 42	11 98	0 84	416	0 03	436	31	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5230	5260	Antelope	cc	no	2 82	0 39	10 82	0 87	420	0 03	384	31	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5260	5290	Antelope	cc	no	2 99	0 41	12 90	0 96	417	0 03	431	32	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5290	5320	Antelope	cc	no	3 41	0 55	13 58	1 38	419	0 04	398	40	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5350	5380	Antelope	cc	no	3 33	0 62	14 84	1 28	417	0 04	446	38	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5380	5410	Antelope	cc	no	2 76	0 44	10 31	1 37	418	0 04	374	50	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5410	5440	Antelope	cc	no	3 37	0 85	15 31	1 40	419	0 05	454	42	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5440	5470	Antelope	cc	no	2 99	0 96	14 27	1 33	415	0 06	477	44	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5470	5500	Antelope	cc	no	3 10	0 92	14 60	1 50	416	0 06	471	48	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5530	5560	Antelope	cc	no	2 93	0 66	12 93	0 99	416	0 05	441	34	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5560	5590	Antelope	cc	no	2 92	0 55	12 08	1 04	416	0 04	414	36	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5590	5620	Antelope	cc	no	3 03	0 64	13 22	1 19	412	0 05	436	39	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5620	5650	Antelope	cc	no	2 61	0 86	12 48	1 01	412	0 06	478	39	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5650	5680	Antelope	cc	no	2 55	0 96	11 52	1 17	412	0 08	452	46	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5680	5710	Antelope	cc	no	2 40	0 87	11 58	0 96	411	0 07	483	40	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5710	5740	Antelope	cc	no	2 38	0 69	10 16	1 04	414	0 06	427	44	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5740	5770	Antelope	cc	no	2 21	0 96	11 42	0 91	410	0 08	517	41	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5770	5830	Antelope	cc	no	2 52	1 26	13 40	0 93	413	0 09	532	37	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5830	5860	Antelope	cc	no	2 85	1 29	11 40	1 11	414	0 10	400	39	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5860	5920	Antelope	cc	no	2 51	1 48	13 06	1 04	411	0 10	520	41	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5920	5950	Antelope	cc	no	3 18	1 89	17 00	1 05	416	0 10	535	33	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5950	5980	Antelope	cc	no	3 44	1 50	17 08	1 16	415	0 08	497	34	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	5980	6010	Antelope	cc	no	2 84	1 97	15 83	1 00	416	0 11	557	35	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	6010	6040	Antelope	cc	no	2 91	1 83	14 05	0 89	414	0 12	483	31	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	6040	6070	Antelope	cc	no	2 76	0 96	12 34	0 95	416	0 07	447	34	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	6070	6100	Antelope	cc	no	3 15	1 23	14 25	1 14	419	0 08	452	36	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	6100	6115	Antelope	cc	no	2 80	0 97	11 65	1 09	417	0 08	416	39	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	6115	6135	Antelope	cc	no	2 97	1 74	14 63	0 12	417	0 11	493	4	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	6135	6165	Antelope	cc	no	2 71	1 69	12 57	1 06	412	0 12	464	39	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	6165	6195	Antelope	cc	no	2 63	0 83	10 38	1 08	414	0 07	395	41	--	Ja
X	89	Fairfield Fee 'D' 48-38	04029750780000	-119 56285	35 26828	6195	6225	Antelope	cc	no	2 30	1 13	11 50	1 27	414	0 09	500	55	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	3420	3450	Antelope	cc	no	2 54	2 28	11 03	1 44	401	0 17	434	57	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	3450	3480	Antelope	cc	no	3 29	3 29	14 73	1 00	401	0 18	448	30	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	3490	3500	Antelope	cc	no	2 52	2 71	8 65	0 66	408	0 24	343	26	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	3520	3535	Antelope	cc	no	5 16	4 67	21 54	0 97	401	0 18	417	19	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	3972	3985	Antelope	cc	no	4 93	3 72	22 61	1 12	402	0 14	459	23	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4000	4015	Antelope	cc	no	4 68	5 63	22 55	1 11	400	0 20	482	24	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4030	4045	Antelope	cc	no	5 23	4 74	24 24	1 23	401	0 16	463	24	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4045	4060	Antelope	cc	no	5 73	5 41	25 13	1 52	400	0 18	439	27	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4075	4090	Antelope	cc	no	5 60	4 73	25 53	1 20	400	0 16	456	21	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4105	4120	Antelope	cc	no	5 26	5 37	24 69	1 12	400	0 18	469	21	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4135	4150	Antelope	cc	no	4 17	3 96	21 10	1 04	398	0 16	506	25	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4165	4180	Antelope	cc	no	5 63	4 84	30 05	1 05	399	0 14	534	19	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4195	4225	Antelope	cc	no	5 02	4 28	26 28	1 13	400	0 14	524	23	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4225	4245	Antelope	cc	no	5 56	4 04	24 19	1 18	403	0 14	435	21	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4245	4265	Antelope	cc	no	5 59	5 43	27 63	1 15	400	0 16	494	21	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4285	4300	Antelope	cc	no	4 71	4 39	23 05	1 06	401	0 16	489	23	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4315	4335	Antelope	cc	no	4 79	3 65	21 94	1 14	405	0 14	458	24	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4344	4355	Antelope	cc	no	5 12	4 85	24 23	1 30	407	0 17	473	25	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4373	4380	Antelope	cc	no	3 90	4 93	13 15	0 99	411	0 27	337	25	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4380	4410	Antelope	cc	no	3 54	3 96	17 10	1 00	402	0 19	483	28	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4410	4430	Antelope	cc	no	3 17	3 38	15 66	0 86	400	0 18	494	27	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4430	4460	Antelope	cc	no	2 72	2 63	12 77	0 85	399	0 17	469	31	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4460	4490	Antelope	cc	no	2 98	2 76	14 88	0 88	400	0 16	499	30	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4490	4520	Antelope	cc	no	3 60	2 66	15 15	1 07	400	0 15	421	30	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4520	4550	Antelope	cc	no	3 26	2 86	16 63	1 06	400	0 15	510	33	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4550	4580	Antelope	cc	no	3 68	2 11	15 61	1 20	404	0 12	424	33	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4580	4610	Antelope	cc	no	3 57	2 07	17 30	1 09	402	0 11	485	31	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4625	4655	Antelope	cc	no	2 53	1 88	13 44	0 87	402	0 12	531	34	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4685	4715	Antelope	cc	no	3 75	2 30	16 45	1 18	407	0 12	439	31	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4715	4745	Antelope	cc	no	3 46	2 43	14 47	1 08	403	0 14	418	31	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4755	4785	Antelope	cc	no	3 82	1 84	17 79	1 20	402	0 09	466	31	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4785	4815	Antelope	cc	no	3 98	1 64	16 69	1 14	404	0 09	419	29	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4815	4845	Antelope	cc	no	4 68	1 85	19 74	1 20	408	0 09	422	26	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4845	4875	Antelope	cc	no	4 25	1 99	18 14	1 72	404	0 10	427	40	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4875	4895	Antelope	cc	no	3 81	1 99	19 88	1 05	408	0 09	522	28	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4895	4925	Antelope	cc	no	2 84	1 83	13 52	1 32	403	0 12	476	46	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4925	4940	Antelope	cc	no	3 20	1 77	15 64	1 46	411	0 10	489	46	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4940	4960	Antelope	cc	no	4 01	2 35	18 51	1 56	406	0 11	462	39	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	4980	5000	Antelope	cc	no	4 04	2 78	18 51	1 63	406	0 13	458	40	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5000	5025	Antelope	cc	no	3 09	1 82	16 87	0 98	405	0 10	546	32	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5025	5050	Antelope	cc	no	3 64	1 78	16 34	1 58	409	0 10	449	43	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5050	5080	Antelope	cc	no	3 16	1 69	15 89	1 46	405	0 10	503	46	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5080	5110	Antelope	cc	no	3 40	1 82	17 51	1 51	403	0 09	515	44	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5110	5125	Antelope	cc	no	3 82	1 66	18 23	1 60	406	0 08	477	42	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5125	5140	Antelope	cc	no	4 32	2 06	21 21	1 14	410	0 09	491	26	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5140	5170	Antelope	cc	no	4 05	1 74	18 95	1 56	406	0 08	468	39	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5170	5200	Antelope	cc	no	4 40	2 54	19 12	2 19	411	0 12	435	50	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5200	5230	Antelope	cc	no	4 25	3 39	19 86	1 47	402	0 15	467	35	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5230	5260	Antelope	cc	no	3 59	2 29	17 82	0 98	406	0 11	496	27	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5260	5290	Antelope	cc	no	4 09	3 39	19 19	1 35	402	0 15	469	33	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5290	5320	Antelope	cc	no	4 08	3 47	19 82	1 35	402	0 15	486	33	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5320	5350	Antelope	cc	no	4 25	3 12	21 16	1 28	402	0 13	498	30	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5360	5397	Antelope	cc	no	4 66	2 94	24 34	1 18	402	0 11	522	25	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5397	5430	Antelope	cc	no	4 24	3 70	21 97	1 16	400	0 14	518	27	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5430	5460	Antelope	cc	no	4 26	2 83	21 57	1 21	400	0 12	506	28	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5460	5490	Antelope	cc	no	4 19	3 02	24 48	0 87	401	0 11	584	21	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5490	5520	Antelope	cc	no	4 72	2 69	23 68	1 32	408	0 10	502	28	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5520	5550	Antelope	cc	no	4 71	2 80	23 82	1 35	409	0 11	506	29	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5550	5580	Antelope	cc	no	5 54	4 68	27 02	1 46	410	0 15	488	26	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5580	5610	Antelope	cc	no	4 30	2 97	25 26	1 07	402	0 11	587	25	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5610	5640	Antelope	cc	no	5 38	2 75	27 05	1 44	407	0 09	503	27	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5640	5670	Antelope	cc	no	4 96	2 21	26 48	1 60	402	0 08	534	32	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5670	5700	Antelope	cc	no	4 72	2 18	25 60	1 44	404	0 08	542	31	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5700	5730	Antelope	cc	no	4 85	2 71	28 18	1 14	403	0 09	581	24	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5730	5760	Antelope	cc	no	4 99	1 99	25 04	1 35	407	0 07	502	27	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5760	5790	Antelope	cc	no	4 60	2 18	24 89	1 40	405	0 08	541	30	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5800	5830	Antelope	cc	no	5 39	2 41	28 95	1 53	405	0 08	537	28	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5830	5860	Antelope	cc	no	5 32	2 36	28 71	1 18	408	0 08	540	22	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5885	5900	Antelope	cc	no	5 07	2 22	23 79	1 53	411	0 09	469	30	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5900	5930	Antelope	cc	no	4 48	2 72	22 28	1 54	410	0 11	497	34	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5930	5960	Antelope	cc	no	4 83	2 25	20 99	1 39	410	0 10	435	29	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	5960	6020	Antelope	cc	no	2 68	2 04	12 29	1 10	413	0 14	459	41	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	6020	6050	Antelope	cc	no	3 03	1 63	14 32	1 33	409	0 10	473	44	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	6050	6075	Antelope	cc	no	2 73	1 98	13 03	1 19	407	0 13	477	44	--	Ja
X	90	White Wolf 204-5	04029891530000	-119 15196	34 98685	6080	6100	Antelope	cc	no	3 19	5 04	12 55	1 08	409	0 29	393	34	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	3955	3955	Antelope	co	no	1 51	0 85	8 39	0 30	412	0 09	556	20	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	91	653Z-26B	04030054520000	-119 47267	35 19515	3965	3965	Antelope	co	no	1 89	0 55	5 92	0 45	411	0 09	313	24	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	3974	3974	Antelope	co	no	1 93	0 64	9 52	0 40	414	0 06	493	21	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	3983	3983	Antelope	co	no	1 64	0 39	4 78	0 33	408	0 08	291	20	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	3991	3991	Antelope	co	no	2 31	0 40	4 93	0 49	407	0 08	213	21	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4001	4001	Antelope	co	no	2 71	0 40	4 69	0 47	406	0 08	173	17	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4009	4009	Antelope	co	no	3 37	0 62	7 70	0 66	403	0 07	228	20	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4016	4016	Antelope	co	no	2 12	0 35	6 26	0 45	406	0 05	295	21	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4025	4025	Antelope	co	no	2 41	0 41	5 92	0 42	414	0 06	246	17	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4034	4034	Antelope	co	no	3 69	0 52	13 58	0 74	418	0 04	368	20	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4043	4043	Antelope	co	no	3 13	0 46	6 39	0 48	402	0 07	204	15	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4048	4048	Antelope	co	no	3 57	0 56	5 90	0 56	401	0 09	165	16	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4059	4059	Antelope	co	no	4 06	0 37	5 42	0 55	402	0 06	133	14	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4069	4069	Antelope	co	no	1 99	0 50	6 47	0 55	405	0 07	325	28	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4076	4076	Antelope	co	no	3 94	0 51	4 23	0 63	403	0 11	107	16	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4082	4082	Antelope	co	no	2 95	0 50	5 23	0 63	406	0 09	177	21	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4091	4091	Antelope	co	no	2 65	0 64	5 87	0 69	402	0 10	222	26	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4100	4100	Antelope	co	no	2 52	0 52	5 75	0 62	401	0 08	228	25	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4106	4106	Antelope	co	no	3 47	0 58	7 32	0 64	413	0 07	211	18	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4115	4115	Antelope	co	no	1 95	0 39	3 14	0 86	407	0 11	161	44	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4124	4124	Antelope	co	no	3 38	0 43	4 47	0 58	406	0 09	132	17	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4130	4130	Antelope	co	no	2 83	0 53	5 95	0 58	406	0 08	210	20	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4140	4140	Antelope	co	no	3 36	0 43	6 09	0 58	405	0 07	181	17	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4148	4148	Antelope	co	no	1 66	0 36	4 13	0 45	407	0 08	249	27	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4157	4157	Antelope	co	no	3 66	0 39	7 27	0 69	409	0 05	199	19	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4167	4167	Antelope	co	no	3 44	0 33	4 68	0 65	405	0 07	136	19	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4176	4176	Antelope	co	no	7 31	0 68	18 77	1 00	406	0 03	257	14	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4184	4184	Antelope	co	no	1 40	0 20	3 33	0 64	424	0 06	238	46	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4195	4195	Antelope	co	no	2 23	0 32	8 90	0 62	415	0 03	399	28	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4201	4201	Antelope	co	no	2 11	0 34	5 45	0 63	408	0 06	258	30	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4213	4213	Antelope	co	no	2 16	0 55	4 93	0 55	406	0 10	228	25	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4225	4225	Antelope	co	no	2 65	0 42	7 15	0 50	411	0 06	270	19	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4235	4235	Antelope	co	no	2 07	0 20	6 86	0 48	419	0 03	331	23	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4247	4247	Antelope	co	no	1 89	0 29	3 24	0 36	409	0 08	171	19	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4260	4260	Antelope	co	no	1 55	0 16	3 59	0 32	414	0 04	232	21	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4272	4272	Antelope	co	no	2 21	0 30	5 72	0 52	407	0 05	259	24	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4284	4284	Antelope	co	no	0 84	0 20	3 85	0 29	422	0 05	458	35	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4292	4292	Antelope	co	no	2 52	0 29	10 14	0 74	420	0 03	402	29	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4300	4300	Antelope	co	no	3 36	0 49	15 09	0 86	424	0 03	449	26	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4312	4312	Antelope	co	no	1 91	0 42	8 11	0 62	422	0 05	425	32	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4322	4322	Antelope	co	no	2 02	0 48	12 41	0 93	419	0 04	614	46	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4334	4334	Antelope	co	no	1 91	0 31	6 51	0 55	424	0 05	341	29	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4346	4346	Antelope	co	no	1 59	0 37	4 14	0 39	414	0 08	260	25	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4354	4354	Antelope	co	no	2 14	0 36	7 82	0 55	423	0 04	365	26	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4367	4367	Antelope	co	no	2 46	0 35	7 41	0 73	422	0 05	301	30	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4380	4380	Antelope	co	no	1 26	0 38	3 64	0 40	412	0 09	289	32	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4389	4389	Antelope	co	no	1 75	0 38	6 31	0 40	425	0 06	361	23	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4401	4401	Antelope	co	no	2 12	0 34	8 31	0 56	423	0 04	392	26	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4410	4410	Antelope	co	no	2 17	0 27	7 73	0 77	422	0 03	356	35	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4416	4416	Antelope	co	no	2 01	0 40	8 80	0 63	422	0 04	438	31	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4425	4425	Antelope	co	no	2 12	0 27	7 50	0 63	422	0 03	354	30	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4436	4436	Antelope	co	no	3 29	0 39	12 20	0 79	419	0 03	371	24	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4447	4447	Antelope	co	no	2 45	0 39	8 90	0 66	423	0 04	363	27	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4458	4458	Antelope	co	no	2 25	0 34	10 54	0 71	425	0 03	468	32	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4470	4470	Antelope	co	no	2 09	0 32	9 00	0 57	423	0 03	431	27	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4479	4479	Antelope	co	no	2 15	0 34	8 37	0 78	424	0 04	389	36	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4488	4488	Antelope	co	no	1 48	0 28	5 49	0 71	424	0 05	371	48	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4500	4500	Antelope	co	no	1 92	0 39	8 65	0 57	424	0 04	451	30	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4509	4509	Antelope	co	no	1 30	0 45	5 40	0 57	423	0 08	415	44	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4521	4521	Antelope	co	no	1 95	0 43	6 60	0 78	422	0 06	338	40	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4534	4534	Antelope	co	no	2 60	0 49	9 61	0 79	423	0 05	370	30	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4545	4545	Antelope	co	no	1 73	0 55	7 90	0 67	422	0 07	457	39	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4557	4557	Antelope	co	no	1 12	0 39	4 92	0 62	420	0 07	439	55	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4566	4566	Antelope	co	no	1 70	0 25	7 27	0 45	417	0 03	428	26	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4579	4579	Antelope	co	no	1 82	0 32	6 43	1 10	422	0 05	353	60	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4591	4591	Antelope	co	no	1 21	0 31	5 17	0 60	423	0 06	427	50	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4600	4600	Antelope	co	no	1 30	0 27	5 35	0 57	424	0 05	412	44	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4612	4612	Antelope	co	no	1 30	0 23	3 14	0 34	405	0 07	242	26	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4622	4622	Antelope	co	no	2 44	0 44	8 58	0 58	418	0 05	352	24	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4632	4632	Antelope	co	no	1 67	0 47	4 88	0 50	416	0 09	292	30	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4644	4644	Antelope	co	no	0 91	0 24	2 64	0 36	409	0 08	290	40	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4653	4653	Antelope	co	no	0 52	0 12	1 13	0 35	421	0 10	217	67	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4663	4663	Antelope	co	no	1 25	0 20	2 12	0 29	409	0 09	170	23	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4674	4674	Antelope	co	no	2 37	0 28	4 35	0 40	410	0 06	184	17	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4686	4686	Antelope	co	no	2 26	0 37	6 37	0 44	413	0 05	282	19	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4698	4698	Antelope	co	no	1 39	0 20	4 77	0 40	417	0 04	343	29	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4710	4710	Antelope	co	no	1 78	0 29	6 15	0 47	421	0 05	346	26	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4719	4719	Antelope	co	no	2 62	0 23	6 29	0 59	421	0 04	240	23	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4731	4731	Antelope	co	no	2 23	0 38	6 02	0 57	420	0 06	270	26	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4741	4741	Antelope	co	no	2 01	0 23	6 42	0 60	423	0 03	319	30	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4751	4751	Antelope	co	no	1 86	0 33	6 31	0 60	423	0 05	339	32	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4763	4763	Antelope	co	no	2 11	0 37	7 13	0 62	421	0 05	338	29	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4775	4775	Antelope	co	no	2 29	0 40	3 25	0 47	412	0 11	142	21	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4784	4784	Antelope	co	no	1 39	0 25	3 21	0 22	411	0 07	231	16	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4792	4792	Antelope	co	no	1 51	0 40	3 07	0 29	408	0 12	203	19	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4801	4801	Antelope	co	no	1 77	0 28	6 24	0 49	421	0 04	353	28	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4809	4809	Antelope	co	no	2 79	0 24	9 30	0 67	421	0 03	333	24	--	Ja

Table 11.7. Rock-Eval pyrolysis/total organic carbon data for core and drill cuttings samples from the San Joaquin Basin Province, California.—Continued

X	Map No.	Well	API No.	Longitude	Latitude	Top, ft	Bot., ft	Interval	Spl	Ext.	TOC	S1	S2	S3	Tmax	PI	HI	OI	Ro	Data
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4818	4818	Antelope	co	no	2.50	0.13	4.26	0.45	410	0.03	170	18	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4827	4827	Antelope	co	no	2.00	0.43	4.98	0.45	408	0.08	249	22	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4836	4836	Antelope	co	no	2.51	0.18	4.91	0.45	406	0.04	196	18	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4845	4845	Antelope	co	no	1.84	0.27	3.65	0.46	409	0.07	198	25	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4855	4855	Antelope	co	no	4.20	0.24	5.91	0.54	411	0.04	141	13	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4867	4867	Antelope	co	no	2.45	0.21	3.90	0.60	408	0.05	159	24	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4879	4879	Antelope	co	no	0.99	0.17	2.02	0.32	410	0.08	204	32	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4888	4888	Antelope	co	no	1.44	0.24	2.19	0.30	410	0.10	152	21	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4897	4897	Antelope	co	no	2.85	0.64	11.12	0.86	417	0.05	390	30	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4903	4903	Antelope	co	no	0.91	0.15	0.70	0.29	412	0.18	77	32	--	Ja
X	91	653Z-26B	04030054520000	-119 47267	35 19515	4907	4907	Antelope	co	no	3.11	0.35	10.85	0.49	422	0.03	349	16	--	Ja