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PR87-28

PYROLYSIS DATA ON SAMPLES FROM WELLS DRILLED IN THE AMADEUS BASIN

CRA REPORT No. R560

PYROLYSIS DATA ON SAMPLES FROM WELLS DRILLED IN THE AMADEUS BASIN

CRA REPORT NO. R560

R560

Amadeus Basin

ALICE 1
ALI-1
Amadeus Basin 23 55 s. lat. 133 53 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	159	520	16.6	0.54	---	---	bdl	bdl	ndm	---	---	---
2	537	1760	0.9	bdl	---	---	---	---	---	---	---	---
3	646	2118	22.4	0.01	---	---	0.06	bdl	ndm	---	---	0.1
4	796	2611	22.3	0.10	---	---	---	---	---	---	---	---
5	953	3125	41.1	0.51	---	---	0.06	bdl	ndm	---	---	0.1
6	1040	3412	2.5	0.19	---	---	---	---	---	---	---	---
7	1094	3589	9.4	0.32	---	---	bdl	bdl	ndm	---	---	---
8	1186	3889	90.7	2.00	---	---	bdl	bdl	ndm	---	---	---
9	1477	4845	82.4	bdl	---	---	---	---	---	---	---	---
10	1478	4847	92.3	0.07	---	---	bdl	bdl	ndm	---	---	---
11	1661	5449	18.6	0.76	---	---	bdl	bdl	ndm	---	---	---
12	1848	6062	12.1	0.60	---	---	bdl	bdl	ndm	---	---	---
13	1859	6096	30.0	0.17	---	---	---	---	---	---	---	---
14	1869	6129	29.4	0.25	---	---	0.08	bdl	ndm	---	---	0.2
15	1964	6443	46.1	1.13	---	---	0.05	bdl	ndm	---	---	0.2
16	2293	7520	23.7	0.12	---	---	---	---	---	---	---	---

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
M is sample depth in meters.
FT is sample depth in feet.
%I-C is inorganic carbon as % calcium carbonate in rock.
%O-C is organic carbon as % carbon in rock.
%N is % nitrogen in rock.
%H is % hydrogen in rock.
S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).
S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).
PI is production index [S1/(S1+S2)].
TMAX is temperature at which S2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).
GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).
'bdl' means 'below detection limit'; '---' means 'not determined'.
'ndm' means 'no definitive maximum'.

EAST MEREENIE 1
EME-1

Amadeus Basin 24 01 s. lat. 131 34 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	884	2900	5.4	0.27	0.08	0.35	0.34	bdl	ndm	---	---	0.4
2	1098	3600	26.8	0.28	bdl	0.19	0.36	bdl	ndm	---	---	0.4
3	1143	3750	11.9	0.40	bdl	0.29	0.72	bdl	ndm	---	---	0.8
4	1148	3765	2.8	0.16	bdl	0.09	0.35	bdl	ndm	---	---	0.4
5	1152	3780	6.5	0.39	bdl	0.20	0.43	bdl	ndm	---	---	0.6
6	1169	3835	7.4	0.51	bdl	0.23	0.47	bdl	ndm	---	---	0.6
7	1209	3965	3.6	0.65	bdl	0.19	0.40	0.2	433	0.61	30	0.6
8	1241	4070	0.3	0.22	0.05	bdl	0.34	bdl	ndm	---	---	0.4
9	1250	4100	8.4	0.19	bdl	bdl	0.31	bdl	ndm	---	---	0.3
10	1302	4270	2.6	0.30	bdl	0.09	0.41	bdl	ndm	---	---	0.5
11	1369	4490	2.5	0.62	bdl	0.14	0.28	0.4	479	0.40	66	0.7
12	1378	4520	3.6	0.48	bdl	0.16	0.25	bdl	ndm	---	---	0.3
13	1419	4655	67.1	0.88	bdl	bdl	0.27	bdl	ndm	---	---	0.3
14	1431	4695	11.3	0.29	bdl	0.10	0.32	bdl	ndm	---	---	0.4

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
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PI is production index [S1/(S1+S2)].
TMAX is temperature at which S2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).
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ERLDUNDA 1
ERL-1
Amadeus Basin 25 19 s. lat. 133 12 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	412	1350	1.2	0.08	bdl	bdl	0.09	bdl	ndm	---	---	0.1
2	493	1616	2.3	bdl	bdl	0.22	0.08	bdl	ndm	---	---	0.1
3	494	1620	1.3	0.07	bdl	0.29	0.10	bdl	ndm	---	---	0.1
4	637	2090	0.6	0.09	bdl	0.39	0.10	bdl	ndm	---	---	0.1
5	640	2100	0.8	0.09	bdl	0.37	0.12	bdl	ndm	---	---	0.1
6	655	2150	1.5	0.09	bdl	0.38	0.11	bdl	ndm	---	---	0.1
7	729	2390	1.4	0.12	bdl	0.36	0.10	bdl	ndm	---	---	0.1
8	747	2450	1.2	0.12	bdl	0.37	0.07	bdl	ndm	---	---	0.1
9	768	2520	1.6	0.13	bdl	0.39	0.10	bdl	ndm	---	---	0.1
10	820	2690	3.7	0.15	bdl	0.36	0.10	bdl	ndm	---	---	0.1
11	848	2780	5.8	0.14	bdl	0.37	0.16	bdl	ndm	---	---	0.2
12	884	2900	7.0	0.08	bdl	0.36	0.08	bdl	ndm	---	---	0.1
13	887	2910	5.6	0.13	bdl	0.54	0.07	bdl	ndm	---	---	0.1
14	945	3100	14.9	0.21	0.08	0.41	0.10	bdl	ndm	---	---	0.1
15	979	3210	15.0	0.25	0.06	0.43	0.07	bdl	ndm	---	---	0.1
16	1003	3290	14.6	0.23	0.09	0.46	0.06	bdl	ndm	---	---	0.1
17	1055	3460	18.1	0.50	0.06	0.37	0.12	bdl	ndm	---	---	0.1
18	1085	3560	18.3	0.57	0.07	0.40	0.13	bdl	ndm	---	---	0.2
19	1114	3653	81.8	0.48	bdl	0.23	bdl	bdl	ndm	---	---	---
20	1119	3670	17.0	0.56	0.05	0.46	0.15	bdl	ndm	---	---	0.2
21	1137	3730	17.1	0.72	bdl	0.42	0.11	bdl	ndm	---	---	0.1
22	1262	4140	4.9	0.84	bdl	0.45	0.16	bdl	ndm	---	---	0.2
23	1268	4160	1.9	3.23	0.11	0.58	0.27	bdl	ndm	---	---	0.3
24	1271	4170	2.1	3.34	0.11	0.57	0.26	bdl	ndm	---	---	0.3
25	1279	4196	14.8	0.10	bdl	0.43	0.10	bdl	ndm	---	---	0.1
26	1320	4330	75.9	0.13	bdl	0.13	0.06	bdl	ndm	---	---	0.1
27	1363	4470	52.4	0.42	bdl	0.24	0.08	bdl	ndm	---	---	0.1
28	1384	4540	61.2	0.60	bdl	0.16	0.12	bdl	ndm	---	---	0.2
29	1463	4800	43.0	0.36	bdl	0.22	0.36	bdl	ndm	---	---	0.6
30	1631	5350	25.7	0.16	bdl	0.22	0.09	bdl	ndm	---	---	0.1

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
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FT is sample depth in feet.
%I-C is inorganic carbon as % calcium carbonate in rock.
%O-C is organic carbon as % carbon in rock.
%N is % nitrogen in rock.
%H is % hydrogen in rock.
S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).
S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).
PI is production index [S1/(S1+S2)].
TMAX is temperature at which S2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).
GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).
'bdl' means 'below detection limit'; '---' means 'not determined'.
'ndm' means 'no definitive maximum'.

HIGHWAY ANTICLINE 1

HIG-1

Amadeus Basin 24 20 s. lat. 133 27 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	211	691	22.4	0.29	---	---	0.05	bdl	ndm	---	---	0.1
2	544	1784	30.3	bdl	---	---	---	---	---	---	---	---
3	740	2428	1.6	0.12	---	---	---	---	---	---	---	---
4	741	2430	1.8	0.20	---	---	bdl	bdl	ndm	---	---	---

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
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%N is % nitrogen in rock.
%H is % hydrogen in rock.
S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).
S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).
PI is production index [S1/(S1+S2)].
TMAX is temperature at which S2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).
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ILLOGWA CREEK 6
ILL-6
Amadeus Basin 23 45 s. lat. 135 19 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	45	149	16.5	0.13	0.11	0.33	0.15	bdl	ndm	---	---	0.2
2	75	245	13.1	0.16	0.09	0.32	0.23	bdl	ndm	---	---	0.2
3	104	342	18.1	0.20	0.10	0.30	0.15	bdl	ndm	---	---	0.2
4	135	442	13.6	0.26	0.12	0.31	0.10	bdl	ndm	---	---	0.1
5	164	539	19.3	0.44	0.10	0.34	0.20	bdl	ndm	---	---	0.2
6	194	637	13.6	0.30	0.13	0.32	0.16	bdl	ndm	---	---	0.2
7	224	735	24.0	0.46	0.10	0.30	0.21	bdl	ndm	---	---	0.2
8	230	756	11.6	0.27	0.12	0.32	0.26	bdl	ndm	---	---	0.3

yrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
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%I-C is inorganic carbon as % calcium carbonate in rock.
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S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).
PI is production index [S1/(S1+S2)].
TMAX is temperature at which S2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).
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MT. CHARLOTTE 1
MCA-1
Amadeus Basin 24 54 s. lat. 133 59 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	416	1364	1.5	0.50	---	---	0.06	bdl	ndm	---	---	0.3
2	703	2305	50.9	0.06	---	---	---	---	---	---	---	---
3	1067	3500	3.2	0.36	---	---	bdl	bdl	ndm	---	---	---
4	1226	4020	1.1	0.35	---	---	bdl	bdl	ndm	---	---	---
5	1381	4530	6.0	0.38	---	---	bdl	bdl	ndm	---	---	---
6	1537	5041	60.9	1.14	---	---	0.10	0.2	450	0.32	18	0.3
7	1569	5145	75.0	0.40	---	---	0.03	0.2	431	0.26	54	0.3
8	1652	5420	15.0	0.32	---	---	0.00	bdl	ndm	---	---	0.2
9	1655	5428	44.2	0.48	---	---	0.23	0.5	476	0.34	113	0.8
10	1773	5817	16.0	0.57	---	---	0.19	0.2	466	0.46	39	0.4
11	2044	6703	0.4	0.33	---	---	bdl	bdl	ndm	---	---	---
12	2058	6749	3.0	0.50	---	---	bdl	bdl	ndm	---	---	---
13	2059	6755	5.9	0.72	---	---	bdl	bdl	ndm	---	---	---
14	2115	6937	60.9	0.91	---	---	0.09	bdl	ndm	---	---	0.3
15	2116	6941	81.0	bdl	---	---	---	---	---	---	---	---

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
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S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).
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TMAX is temperature at which S2 signal is maximum (deg C).
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DORAMINNA 1
ORM-1

Amadeus Basin 24 00 s. lat. 134 10 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	515	1690	54.7	0.35	bdl	0.10	0.37	bdl	ndm	---	---	0.4
2	530	1740	40.3	0.20	0.05	0.08	0.45	bdl	ndm	---	---	0.6
3	631	2070	13.7	0.15	bdl	0.33	0.53	bdl	ndm	---	---	0.7
4	668	2190	4.0	0.10	0.05	0.37	0.39	bdl	ndm	---	---	0.5
5	704	2310	3.6	0.13	0.06	0.37	0.65	bdl	ndm	---	---	0.8
6	732	2400	4.2	0.14	bdl	0.29	0.30	bdl	ndm	---	---	0.4
7	790	2590	4.1	0.23	0.07	0.35	0.54	bdl	ndm	---	---	0.7
8	793	2600	3.8	0.19	0.06	0.35	0.44	bdl	ndm	---	---	0.6
9	824	2702	0.4	0.76	0.03	0.36	0.72	0.3	493	0.69	43	1.0
10	851	2790	1.9	0.42	0.07	0.35	0.48	bdl	ndm	---	---	0.7
11	869	2850	3.4	0.13	0.06	0.35	0.45	bdl	ndm	---	---	0.6
12	915	3000	2.1	0.16	0.06	0.37	0.41	bdl	ndm	---	---	0.5
13	923	3029	1.9	0.10	0.06	0.35	0.38	bdl	ndm	---	---	0.5
14	936	3070	3.1	0.13	0.08	0.38	0.52	bdl	ndm	---	---	0.7
15	976	3200	2.3	0.12	0.06	0.37	0.53	bdl	ndm	---	---	0.7
16	1015	3330	1.9	0.15	0.07	0.39	0.35	bdl	ndm	---	---	0.5
17	1046	3430	1.0	0.20	0.07	0.40	0.38	bdl	ndm	---	---	0.4
18	1048	3439	0.4	0.23	0.06	0.38	0.51	bdl	ndm	---	---	0.7
19	1049	3441	0.4	0.26	0.08	0.41	0.43	bdl	ndm	---	---	0.6
20	1052	3450	1.3	0.26	0.07	0.39	0.52	bdl	ndm	---	---	0.7
21	1152	3780	41.8	0.25	bdl	0.17	0.49	bdl	ndm	---	---	0.6
22	1186	3890	18.3	0.57	0.06	0.34	0.59	bdl	ndm	---	---	0.7
23	1195	3921	12.0	0.48	0.06	0.34	0.48	0.2	523	0.68	46	0.7
25	1226	4020	27.8	0.53	0.05	0.29	0.94	0.3	ndm	0.78	50	1.2
26	1241	4070	16.6	0.99	0.06	0.35	0.69	bdl	ndm	---	---	0.9
27	1259	4130	4.2	0.14	bdl	0.24	0.41	bdl	ndm	---	---	0.6
29	1367	4485	50.3	0.10	bdl	0.15	0.33	bdl	ndm	---	---	0.5
30	1398	4585	17.9	0.26	bdl	0.39	0.42	bdl	ndm	---	---	0.6
31	1438	4715	3.1	bdl	bdl	0.51	0.36	bdl	ndm	---	---	0.5
33	1700	5575	80.0	0.15	bdl	0.06	0.36	bdl	ndm	---	---	0.4
34	1733	5685	76.8	0.32	bdl	bdl	0.43	bdl	ndm	---	---	0.5
35	1768	5800	45.3	0.20	bdl	bdl	0.56	bdl	ndm	---	---	0.6
36	1799	5900	38.8	0.13	bdl	0.09	0.39	bdl	ndm	---	---	0.5
37	1829	6000	57.8	0.32	bdl	0.09	0.44	bdl	ndm	---	---	0.6

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TMAX is temperature at which S2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).
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ORANGE 1
ORA-1

Amadeus Basin 24 03 s. lat. 133 47 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	868	2848	0.3	0.36	---	---	bdl	bdl	ndm	---	---	---
2	1232	4042	94.8	0.52	---	---	bdl	bdl	ndm	---	---	---
3	1237	4056	6.9	0.12	---	---	---	---	---	---	---	---
4	1242	4075	5.9	0.19	---	---	---	---	---	---	---	---
5	1242	4075	8.3	0.23	---	---	bdl	bdl	ndm	---	---	---
6	1594	5227	38.6	0.20	---	---	bdl	bdl	ndm	---	---	---
7	1603	5258	0.5	0.24	---	---	0.07	bdl	ndm	---	---	0.1
8	2154	7065	8.9	0.27	---	---	bdl	bdl	ndm	---	---	---
9	2157	7074	85.9	0.83	---	---	bdl	bdl	ndm	---	---	---

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
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%I-C is inorganic carbon as % calcium carbonate in rock.
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S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).
PI is production index [S1/(S1+S2)].
TMAX is temperature at which S2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).
GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).
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PALM VALLEY 1
PAL-1
Amadeus Basin 24 00 s. lat. 132 46 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	1280	4200	21.8	0.12	bdl	0.39	0.36	bdl	ndm	---	---	0.4
2	1284	4210	22.5	0.23	bdl	0.30	0.54	0.2	ndm	0.70	103	0.8
3	1293	4240	15.6	0.23	bdl	0.42	0.50	0.2	ndm	0.69	99	0.7
4	1372	4500	0.8	0.20	bdl	0.36	0.69	0.2	ndm	0.74	120	0.9
5	1393	4570	2.8	0.09	bdl	0.13	0.48	bdl	ndm	---	---	0.6
6	1442	4730	1.4	0.12	bdl	0.20	0.45	bdl	ndm	---	---	0.6
7	1466	4810	2.5	0.12	bdl	0.23	0.44	bdl	ndm	---	---	0.6
8	1625	5330	19.8	0.30	bdl	0.28	0.40	bdl	ndm	---	---	0.7
9	1652	5420	14.0	0.91	bdl	0.38	0.77	0.3	473	0.74	29	1.0
10	1689	5540	21.1	0.17	bdl	0.39	0.55	bdl	ndm	---	---	0.7
11	1729	5670	8.2	0.17	bdl	0.27	0.53	bdl	ndm	---	---	0.6
12	1767	5795	8.5	0.17	bdl	0.29	0.43	bdl	ndm	---	---	0.6
13	1787	5860	8.8	0.17	bdl	0.26	0.68	bdl	ndm	---	---	0.8
14	1817	5960	8.5	0.15	bdl	0.27	0.44	bdl	ndm	---	---	0.5
15	1850	6069	6.5	0.14	bdl	0.22	0.57	bdl	ndm	---	---	0.7
16	1873	6145	2.1	0.08	bdl	0.08	1.12	bdl	ndm	---	---	1.2
17	1912	6270	3.2	0.17	bdl	0.29	0.07	bdl	ndm	---	---	0.1
18	1949	6393	8.9	0.50	0.08	0.26	0.17	bdl	ndm	---	---	0.3
19	1980	6495	3.2	0.09	bdl	0.12	0.12	bdl	ndm	---	---	0.1

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
M is sample depth in meters.
FT is sample depth in feet.
%I-C is inorganic carbon as % calcium carbonate in rock.
%O-C is organic carbon as % carbon in rock.
%N is % nitrogen in rock.
%H is % hydrogen in rock.
S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).
S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).
PI is production index [S1/(S1+S2)].
TMAX is temperature at which S2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).
GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).
'bdl' means 'below detection limit'; '---' means 'not determined'.
'ndm' means 'no definitive maximum'.

TYLER 1
TYL-1

Amadeus Basin 23 45 s. lat. 132 25 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	2786	9139	3.6	bdl	---	---	---	---	---	---	---	---
2	3563	11688	3.6	0.14	---	---	---	---	---	---	---	---
3	3566	11696	9.4	0.23	---	---	bdl	bdl	ndm	---	---	---
4	3567	11700	36.5	0.47	---	---	bdl	bdl	ndm	---	---	---
5	3832	12570	1.5	bdl	---	---	---	---	---	---	---	---
6	3838	12587	0.7	0.56	---	---	0.45	bdl	ndm	---	---	0.6

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
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S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).
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PI is production index [S1/(S1+S2)].
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HI is hydrogen index (mg hydrocarbons/g O-C).
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'bdl' means 'below detection limit'; '---' means 'not determined'.
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WATERHOUSE WEST 1
WAT-1
Amadeus Basin 24 00 s. lat. 133 06 e. long.

#	M	FT	%I-C	%O-C	%N	%H	S1	S2	TMAX	PI	HI	GP
1	1747	5730	31.1	0.60	---	---	0.35	1.2	493	0.22	193	1.6
2	1756	5760	28.2	0.39	---	---	0.22	0.7	484	0.24	249	0.9
3	1765	5790	29.1	0.57	---	---	0.16	0.5	490	0.26	80	0.6
4	1768	5800	30.2	0.83	---	---	0.13	0.4	482	0.25	49	0.5
5	1771	5810	40.0	bdl	---	---	---	---	---	---	---	---
6	1774	5820	49.5	0.38	---	---	0.15	0.3	465	0.35	74	0.4
7	1805	5920	1.2	0.13	---	---	---	---	---	---	---	---
8	1807	5926	1.8	bdl	---	---	---	---	---	---	---	---
9	1807	5927	1.7	0.50	---	---	0.09	0.5	492	0.15	103	0.6

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
M is sample depth in meters.
FT is sample depth in feet.
%I-C is inorganic carbon as % calcium carbonate in rock.
%O-C is organic carbon as % carbon in rock.
%N is % nitrogen in rock.
%H is % hydrogen in rock.
S1 is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock).
S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock).
PI is production index [S1/(S1+S2)].
TMAX is temperature at which S2 signal is maximum (deg C).
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