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PYROLYSIS DATA ON SAMPLES FROM WELLS

DRILLED IN THE PEDIRKA BASIN

CRA REPORT No. R554

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P00826

R554

Pedirka

Basin

R 554

Pedirka Basin

MCDILLS 1

MCD-1

25 44 s. lat.

135 47 e. long.

#	M	FT	XI-C	ZO-C	ZN	XII	S1	S2	TMAX	PI	HI	GP
1	308	1010	2.6	2.29	---	---	0.13	0.9	467	0.12	40	1.0
2	473	1550	4.3	2.03	---	---	0.57	1.8	467	0.24	87	2.3
3	724	2375	0.3	63.63	---	---	3.56	160.4	493	0.02	252	164.0
4	725	2379	0.6	48.93	---	---	5.47	139.0	491	0.04	264	144.5
5	726	2382	0.7	7.29	---	---	0.52	11.6	474	0.04	159	12.1
6	823	2699	0.1	0.70	---	---	bdl	bdl	ndm	---	---	---
7	905	2969	1.6	1.43	---	---	0.11	0.4	479	0.22	26	0.5
8	906	2972	1.5	1.36	---	---	bdl	0.3	476	---	25	0.4
9	1028	3371	0.5	0.82	---	---	bdl	0.3	476	---	---	---
10	1114	3654	1.0	0.88	---	---	bdl	bdl	ndm	---	---	---
11	1557	5108	5.9	0.68	---	---	0.08	0.3	471	0.23	32	0.4
12	2536	8317	0.7	1.10	---	---	bdl	bdl	ndm	---	---	---
13	2757	9043	55.2	0.97	---	---	bdl	0.5	427	---	44	0.5
14	2853	9358	57.6	0.61	---	---	bdl	0.3	479	---	32	0.3
15	2938	9635	30.5	1.06	---	---	0.07	0.5	474	0.13	00	0.6
16	3051	10006	38.7	1.08	---	---	bdl	0.2	476	---	21	0.3
17	3204	10508	20.3	1.37	---	---	bdl	bdl	ndm	---	---	---
18	3205	10514	16.2	1.56	---	---	0.03	0.9	430	0.03	66	1.0
						---	0.06	bdl	ndm	---	---	0.2

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
M is sample depth in meters.

FT is sample depth in feet.

XI-C is inorganic carbon as % calcium carbonate in rock.

ZO-C is organic carbon as % carbon in rock.

ZN is % nitrogen in rock.

XH 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'.

BUREAU OF MINERAL RESOURCES

CORE AND CUTTINGS

LABORATORY

Available for public inspection

and/or copying after

28th January 85

JG

HALE RIVER 1
HLR-1
Pedirka Basin 25 16 s. lat. 136 44 e. long.

#	M	FT	XI-C	XO-C	XN	XH	S1	S2	TMAX	PI	HI	GP
1	652	2140	1.1	1.40	---	---	0.11	2.2	471	0.05	146	2.3
2	1174	3850	1.0	32.34	---	---	10.72	71.3	403	0.13	220	82.0
3	1380	4528	0.8	0.97	---	---	0.19	0.6	472	0.24	64	0.8

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.
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HI is hydrogen index (mg hydrocarbons/g O-C).

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'ndm' means 'no definitive maximum'.

Pedirka Basin		MOKARI 1 MOK-1 26 19 s. lat. 136 26 e. long.									
M	FT	ZI-C	ZO-C	ZN	ZH	S1	S2	TMAX	PI	HI	GP
1	960	3150	3.5	1.70	---	---	bd1	1.0	479	---	60
2	1764	5787	1.3	74.52	---	---	1.00	160.7	403	0.01	226
3	1765	5790	bd1	3.63	---	---	0.16	2.9	477	0.05	79
4	1766	5791	0.2	6.92	---	---	0.40	14.6	477	0.03	211
5	1766	5793	0.7	6.21	---	---	0.34	12.6	476	0.03	15.0
6	1769	5803	0.6	1.16	---	---	0.30	0.4	402	0.03	203
7	1852	6076	0.6	13.38	---	---	0.99	15.7	401	0.06	34
8	1856	6087	0.7	5.10	---	---	0.99	8.7	406	0.10	117
9	1998	6554	0.5	10.30	---	---	3.21	36.7	432	0.08	171
10	1998	6555	0.8	3.36	---	---	0.53	8.7	491	0.06	356
11	2019	6623	0.5	2.62	---	---	0.16	4.7	473	0.03	250
12	2028	6652	0.9	3.24	---	---	0.47	4.0	479	0.11	179
13	2031	6662	bd1	1.04	---	---	0.29	0.5	473	0.39	124
14	2387	7828	5.3	1.09	---	---	bd1	1.0	402	---	43
										89	1.0

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).

GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2).

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Pedirka Basin

PURNI 1

PRN-1

26 17 s. lat.

136 05 e. long.

#	M	FT	XI-C	ZO-C	ZN	ZH	S1	S2	TMAX	PI	HI	GP
1	720	2360	4.5	1.30	---	---	0.12	0.7	495	0.14	55	0.8
2	744	2440	16.5	0.98	---	---	0.07	bdl	ndm	---	---	0.2
3	814	2670	4.1	1.16	---	---	0.06	0.4	469	0.12	39	0.5
4	829	2720	2.8	1.24	---	---	0.08	0.5	473	0.15	39	0.6
5	851	2790	6.0	1.20	---	---	0.09	0.8	466	0.11	65	0.9
6	1772	5811	2.4	0.32	---	---	bdl	bdl	ndm	---	---	---
7	1776	5825	2.0	0.23	---	---	bdl	bdl	ndm	---	---	---
8	1863	6111	1.6	0.07	---	---	---	---	---	---	---	---

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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WITCHERIE 1
WIT-1
Pedirka Basin 26 22 s. lat. 135 39 e. long.

#	M	FT	XI-C	ZO-C	ZN	ZH	S1	S2	TMAX	PI	HI	GP
1	555	1820	0.5	27.25	---	---	0.20	29.1	473	0.01	107	29.3
2	557	1826	0.9	2.71	---	---	0.06	bdl	ndm	---	---	0.2
3	919	3015	1.6	0.18	---	---	---	---	---	---	---	---
4	1174	3852	0.7	0.18	---	---	---	---	---	---	---	---

Pyrolysis run with CNS Pyroprobe and original interface; TMAX inaccurate.
M is sample depth in meters.

FT is sample depth in feet.

XI-C is inorganic carbon as % calcium carbonate in rock.

ZO-C is organic carbon as % carbon in rock.

ZN is % nitrogen in rock.

ZH 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'.