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PYROLYSIS DATA ON SAMPLES FROM WELLS
DRILLED IN THE AMADEUS BASIN

CRA REPORT No. R560

# OPEN FILE

ONSHORE

PR87/028

PYROLYSIS DATA ON SAMPLES FROM WELLS
DRILLED IN THE AMADEUS BASIN

CRA REPORT NO. R560

## OPEN FILE

**ONSHORE** 

POUR 25

					3/	ALICE 1	b					
		0.0	adeus R	3515	-	ALI-1 3 55 s.	lat.	(33 :	50 0	long.		
		H 11	anderd's to	35.11.		A 99 5.	146.	(20)	300 11 -	10119.		
*	M	FI	ZIC	20 C	Z.N	7.11	51	5.2	TMAX	1.1	1:1	GP
1	159	520	16.6	0.54	34.347.30		hd1	bdl	rodm	54.9.4	4.2.4	
3	537	1760	0.9	to cl ?		6150	8 (10)	1.4.5		1-4	: 131 %	()+(-)-
3	646	3113	. 32.4	0.01.	100		0.06	bdl	rodm	2.44	A 4 14	0.1
4	796	2611	22.3	0-30				1 + -	- +		11 10 20	917 991
5	953	3125	41.1	0.51	1	9 1	0.06	bill	nda	3 4 -	482	0.1
6	1040	2412	2.5	0.10	711	1 ( 1	59.1	8.8	9.5.1	11.7.5	1.00	
7	1094	3539	9.4	0.29	101704	411	bdl	ted I	ridm		1000	
9	1186	3050	90.7	3.00			hd1	hd1	ridm	5-45-	192	
9	1477	4345	32.4	34 (3	111	100	- 2 0 5	(4.2		39.3	OR I	
10	1478	4047	73.3	0.117	0.401	Carl and St	bd1	hd1	ndm	1000		9594
11	1661	5449	13.6	0 75	251	- 11	531	bd1	rodm	8.20	1.4.4	+
12	1848	6062	12.1	0.60	2001	** **	bd1	531	ndm	1-302		41
13	1359	6096	30.0	0.17		950	15.6%	4 500	1000	4 10.74	4.5	4-4
14	1869	6129	29-4	0.25		-	30.0	bdl	ridm	100-100		0.2
15	1964	6443	46.1	1.13		- 416	0.05	6/1	ridm			0.2
16	2293	7520	23.7	0-12		4-2		***		1464.4	4 -14	+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.

SI is pyrolysis free-hydrocarbon signal (mg hydrocarbons/g rock). S2 is pyrolysis kerogen signal (mg S2 hydrocarbons/g rock). PI is production index ESI/(S1+S2)].

IMAX is temperature at which it signal is maximum (deg D).

MI is hydrogen index (mg hydrocarbons/g 0-0).

GP is genetic potential (k\_ hydrocarbons/ton rock) (S1+S2).

'bdl' means 'below detection limit'; " -- ' means 'not determined'.

'ndm' means 'no definitive maramum'.

## BUREAU OF MINERAL RESOURCES

## CORE AND CUTTINGS LABORATORY

Available for public impection

EAST MEREENIE 1 EME-1

						PUP-1						
		Ar	nadeus	Basin		24 01 5.	lat.	131	34 P.	long.		
	H	FT	XI-C	20-C	z N	ZH	Sl	52	THAX	PI	HI	GP
1	884	2900	5.4	0.27	0.08	0.35	0.34	bdl	ridm		w w/9	0.4
2	1098	3600	26.8	0.28	bd1	0.19	0.36	bd1	ridm			0.4
3	1143	3750	11.9	0.40 -	bd1	0.29	0.72	bdl	ndm	(7 /2 T	225	0.8
4	1148	3765	2.8	0.16	bd1	0.09	0.35	bdl	ndm		*: ** **	0.4
5	1152	3780	6.5	0.39	bdl	0.20	0.43	bd1	ridm	2.5	+ + +	0.6
G	1169	3835	7.4	0.51	bd1	0.23	0.47	ted1	ridm			0.6
7	1209	3965	3.6	0.65	bd1	0.19	0.40	0.2	400	0.61	30	0.6
В	1241	4070	0.3	0.22	0.05	bd1	0.34	bdl	ridm	8		0.4
9	1250	4100	8.4	0.19	641	bdl	0.31	bdl	" ndm	***	5.55	0.3
10	1302	4270	2.6	0.30	bdl	0.09	0.41	tid1	ridm		***	0.5
11	1369	4490	2.5	0.62	bd1	0.14	0.23	0.4	479	0.40	66	0.7
12	1378	4520	3.6	0.40	bd1	0.16	0.25	bd1	ndm	6 6.0		0.3
13	1419	4655	67.1	0.83	bd1	bdl	0.27	bdl	ridm		9.00	0.3
14	1431	4695	11.3	0.29	td1	0.10	0.32	bd1	ridm	964	1000	0.4

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-'M

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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 D-C).

GP is genetic potential (kg hydrocarbons/ton rock) (S1+S2). 'bd1' means 'below detection limit'; '---' means 'not determined'.

#### ERLDUNDA I ERL-1

		A	madeus	Dasin		25 19 5.	lat.	133 1	2 e.	lang.		
	H	FT	% I - C	%0-C	2 N	ZH	SI	52	THAX	PI	ні	GP
1	412	1350	1.2	0.08	bd1	bd1	0.09	bd1	ndm		+ + +	0.1
2	493	1616	2.3	bd1	tod1	0.22	0.08	bd1	ridm		266	0-1
3	494	1620	, 1.3	0.07	bdl	0.29	0.10	bdl	ridm	***	135	0.1
4	637	2090	0.6	0.09	bdl	0.39	0.10	bdl	ridm			0.1
5	640	2100	0.8	0.09	bd1	0.37	0.12	bdl	ndm		8.55	0.1
6	655	2150	1.5	0.09	bdl	0.38	0.11	bd1	ndm	2		0.1
7	729	2390	1.4	0.12	bd1	0.36	0.10	bd1	ndm		***	0.1
8	747	2450	1.2	0.12	bdl	0.37	0.07	tidl .	ridm	~		0.1
9	768	2520	1.6	0.13	bdl	0.39	0.10	bdl "	ndm	Y.e. e.	4.5.2	0.1
10	820	2690	3.7	0.15	bdl	0.36	0.10	bd1	ridm	5.55	150	0.1
11	848	2780	5.8	0.14	bdl	0.37	0.16	bdl	ndm	* * *	200	0.2
12	884	3900	7.0	0.08	bdl	0.36	0.08	bdl	ndm	***	8.68	0.1
13	887	2910	5.6	0.13	bd1	0.54	0.07	bdl	ndm		10.00	0.1
14	945	3100	14.9	0.21	0.08	0.41	0.10	bd1	ndm		555	0.1
15	979	3210	15.0	0.25	0.06	0.43	0.07	bdl	ndm	****	4.00	0.1
16	1003	3290	14.6	0.23	0.09	0.46	0.06	bdl	ridm			0.1
17	1055	3460	18.1	0.50	0.06	0.37	0.12	bd1	ndm		171	0.1
18	1085	3560	18.3	0.57	0.07	0.40	0.13	bdl	ridm	-		0.2
19	1114	3653	81.8	0.48	bdl	0.23	bdl	bdl	ndm		442	
20	1119	3670	17.0	0.56	0.05	0.46	0.15	bdl	rida	***		0.2
21	1137	3730	17.1	0.72	bd1	0.42	0.11	bd1	ndm	4	533	0.1
22	1262	4140	4.9	0.84	bd1	0.45	0.16	bdl	ndm			0.2
23	1268	4160	1.9	3.23	0.11	0.58	0.27	bd1	ndm		323	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	bd1	0.43	0.10	bd1	ndm			0.1
26	1320	4330	75.9	0.13	bd1	0.13	0.06	bd1	ndm			0 - 1
27	1363	4470	52.4	0.42	bdl	0.24	0.08	bdl	ndm		4.50	0.1
28	1384	4540	61.2	0.60	bd1	0.16	0.12	bdl	ridm	222		0.2
29	1463	4800	43.0	0.36	bd1	0.22	0.36	bdl	ndm		24.4	0.6
30	1631	5350	25.7	0.16	bd1	0.22	0.09	bdl	ridm		one	0.1

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

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PI is production index [S1/(S1+S2)].

IMAX is temperature at which S2 signal is maximum (deg C).

HI is hydrogen index (mg hydrocarbons/g 0-C).

GP is genetic potential (kg hydrocarbons/ton rock) (S1+52).

'bdl' means 'below detection limit'; '---' means 'not determined'.

HIGHWAY ANTICLINE 1

					13 5 4111 00 14	Y Gill F Tr	A THE T					
						HIG-1						
		Am	adeus B	asin	.2.	4 20 5.	. lat.	133	27 e.	long.		
	м	FT	% I - C	%0 C	ZN	7.11	51	5.2	IMAX	1.1	111	GP
1	211	691	22.4	0.29	22.3.3		0.05	641	nitm		3 * *	0.1
2	544	1784	30.3	b.d1			the law on		His R	5-6-	43.3	
3	740	2428	1.6	0.12-	1156.54	3,00	242	43.6	2.6.6	6.8	337	
4	741	2430	1.8	0.20			6 1	bd1	ridm	444.4		THEFT

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

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ILLOGWA CREEK G

	Amadeus Das			lasin	sin 23 45 s. lat.					long.		
	н	FT	XI-C	70 C	ZN	211	21	52	TMAX	r I	111	GP
1	45	149	16.5	0.13	0.11	0.33	0.15	bd1	ridm	8000	7.5 1	0.2
2	75	245	13.1	0.16	0.09	0.32	0.23	tod 1	ndm		3.0	0.2
3	104	342	18.1	0.20	0.10	0.30	0.15	bd1	ndm		484	0.2
4	135	442	13.6	0.26	0.12	0.31	0.10	bd1	ndm			0.1
5	164	539	19.3	0.44	0.10	0.34	0.20	bd1	ndm	4000	353	0.2
6	194	637	13.6	0.30	0.13	0.32	0.16	bd1	ridm		~( )	0.2
7	224	735	24.0	0.46	0.10	0.30	0.21	bdl	ndm	444	275	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: IMAX inaccurate.

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#### MT. CHARLOTTE 1 MCA-I

						IICH						
		Ar	madeus I	tasin	2	4 54 5.	. 1at.	133	59 e.	long.		
	м	FT	x1-c	20-C	ZN	7.11	Sl	52	IMAX	PI	H11	GP
1	416	1364	1.5	0.50			0.06	bd1	ridm		B 0.16	0.3
2	703	2305	50.9	0.06								
3	1067	3500	3.2	0.36			bd1	Ibd	ndm			
4	1226	4020	1.1	0.35		70±	tid1	bd1	ridm	~~~	46-53	***
5	1381	4530	6.0	0.38			bd1	bdI	mbn		8 2 2	
6	1537	5041	60.9	1.14	2	225	0.10	0.2	450	0.32	10	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	0.43		-	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		4.00	t.d1	bdl	ndm	7.73	* * *	
12	2058	6749	3.0	0.50	-4-		bd1	bd1	ridm	16-		
13	2059	6755	5.9	0.72			bdl	tid1	neter	5.5		
14	2115	6937	60.9	0.91		5-2-21	0.09	601	ridm	+++	* * *	0.3
15	2116	6941	81.0	6d1	4.8	2-4	4.6.8	Risks	43.5	3.63	100	

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DORAMINNA I ORH-1 Amadeus Basin 24 00 s. lat. 134 10 e. long. M FI 7.1 - C 20 C ZN. 7.11 51 92 TMAX I. I HI GP 515 1 1690 54.7 0.75 6.11 0.10 0.37 5.41 rodm 0.4 2 1740 40,3 530 0.28 0.45 0.05 0.00 bdl 1.5 ridm 0.6 3 13.7 631 2070 0.15 . bot1 0.33 0.53 bdl ridm. 0.7 4 668 2190 4.0 0.10 0.05 0.37 0.39 hd1 0.5 ridm 5 704 2310 3.6 0.13 0.06 0.37 0.65 had 1 ruta 0.8 G 732 2400 4.2 0-14 bdl 0.29 0.30 bd1 ndm : 3 (6) . . . 0.4 7 790 2590 4.1 0.23 0.07 0.35 0.54 6.41 ridm - 4.4 9.6% 0-7 8 793 0.10 2600 3.0 0.06 0.35 0.44 tidl 220 2 --ridm 0.6 9 824 0.4 0.76 2702 0.3 4 490 0.03 0.36 0.72 0.69 4.3 1.0 10 851 2790 1.9 0.42 0.07 0.35 0.48 tidl ridm n/+14 114 -0.7 11 869 2350 3.4 0.13 0.06 0.35 0.45 bd1 . . . cidm 0.6 12 915 3000 2.1 0.16 0.06 0.37 0.41 bd1 100 ridm 0.5 13 923 3029 1.9 0.10 0.06 0.35 0.33 bd1 ridm .... ... 0.5 14 936 3070 3.1 0.13 0.00 0.36 0.52 bd1 ridm .... ----0.7 15 976 3200 2.3 0.12 0.06 0.37 0.53 tid1 ---0.00 ricim 0.7 16 1015 3330 1.9 0.15 0.07 0.39 0.35 ---631 ridm ---0.5 17 1046 3430 1.0 0.30 0.07 0.40 0.38 bdl -ridm 4 - 4 0.4 18 1048 3439 0.4 0.23 0.06 0-38 0.51 tidl ridm ------0.7 19 1049 3441 0.4 0.26 0.08 0.41 0.43 hid 1 ndm ---70.10.50 0.6 20 1052 3450 0.26 1.3 0.07 0.39 0.52 bdl ndm 0.7 21 41.B 1152 3780 0.25 bd1 0.17 0.49 bdl 100 --ridm 0.6 22 1186 3890 18.3 0.57 0.06 0.34 0.59 bdl - -ndm -0.7 23 1195 3921 12.0 0.49 0.06 0.34 0.48 0.2 523 0.63 46 0.7 25 1226 4020 27.8 0.53 0.29 0.05 0.94 0.78 0.3 ridm 50 1.2 26 1241 4070 16.6 0.39 0.06 0.35 0.69 tod I ndm ---. . . 0.9 27 1259 4130 4.2 0.14 bd1 0.24 0.41 bdl ridm ---22 61 0.6 29 1367 4485 50.3 0.10 tord 1 0.15 0.33 641 ... 100 ndm 0.5 30 1398 4585 17.9 0.26 bd1 0.39 0.42 ted I ndm 4.27.2 . . . 0.6 31 1438 4715 3.1 tod1 bd1 0.51 0.36 bid1 ridm . . . 0.5 33 1700 5575 0.03 0.15 bd1 0.06 0.36 bd1 ridm . . . 0.4 34 1733 5635 76.3 0.32 bod 1 bdl 0.43 ted1 rida 4-0.5 35 1768 5800 45.3 0.20 bd1 bd1 0.56 tid] ridm 850 0.6 36 1799 5900 38.8 0.13 brt1 0.09 0.39 bodI ridm 4.4 11 (4) 0.5 37 1829 6000 57.8 0.32 bd1 0.09 0.44 ted1 ridm 233 0.6

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PI is production index [$S1/($1+$2)1.

TMAX is temperature at which $2 signal is maximum (deg C).
HI is hydrogen index (mg hydrocarbons/g O-C).

GP is genetic potential (kg hydrocarbons/ton rock) ($1+$2).
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```

DRANGE 1 ORA-1 133 47 e. long. Amadeus Dasin 34 03 s. lat. FT % I - C 20 - C 7.11 51 52 IMAX I' I 111 GP M Z.N 868 2848 0.2 0.36 641 bd1 ndm .... 66. ---1232 2 94.8 44.8 4042 0.52 541 bdl ridm 4056 6.9 3 1237 -100 113 × 1-1 - -0.12 2 91 2 Ten and the .... 444 State | 1242 4075 5.9 0.19 A 61.2 SE. - ---. . . 5 1242 4075 8.3 0.23 . . . bd1 bd1 meter ---100 6 1594 5227 30.6 0.20 --hd1 tid1 ridm ----Q 11 7 1603 5258 0.5 0.24 0.07 bd1 rootm 0.1 0.27 bdl \* ndm 8 2154 7065 8.9 ---bdl 7074 ndm 2157 35.9 0.33 tid1 bd1

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PALM VALLEY I PAL-1 132 46 e. long. Amadeus Basin 24 00 s. lat. M FT 7.1-0 70-C ZN 711 31 53 IMAX LI HI GP 0.4 1 1280 4200 0.39 0.36 400 21.8 0.12 6.31 bof 1 ridm 0.2 0.70 103 1284 4210 22.5 0.23 bd1 0.30 0.54 ndm 0.8 0.69 99 0.7 3 1293 4240 15.6 0.33 bdl 0.42 0.50 0.2 ridm 0.20 0.9 1372 4500 0.8 bdl 0.36 0.69 0.2 ridm 0.74 130 31.) 1393 4570 2.8 0.43 ... 0.6 0.09 bd1 0.13 ted 1 nito 1442 4730 0.20 1000 ... 1.4 0.12 bd1 0.45 601 ridm THAT I - 11. 0.6 1466 4810 2.5 0.12 beil 0.23 0.44 mbon 1625 5330 19.0 0.38 bdl 0.28 0.40 bd1 ndm ... 0.7 29 9 1652 5420 14.0 0.91 6d1 0.33 0.77 0.3 473 0.74 1.0 0.55 ---0.7 1689 5540 21.1 0.39 ... 10 0.17 1.01 ridm tod1 0.53 . - -.- - -11 1729 5670 0.2 0.17 0.27 bd1 ndm 0.6 bed 1 12 1767 5795 8.5 0.17 bd1 0.29 0.43 tid1 ridm A 4 2 . . . 0.6 . . . 4 . . 0.8 13 1787 5860 3.3 6d1 ridm 0.17 bdI 0.26 0.63 14 1817 205 - -0.5 5960 8.5 0.15 bd1 0.27 0.44 bd1 ndm 15 1850 6069 0.14 bdI 0.22 0.57 bdl ridm A 10 10 200 0.7 6.5 1873 1.2 16 6145 2.1 0.00 bdl 0.00 1.12 bd1 ndm 3.2 17 1912 6270 0.17 bdI 0.29 0.07 641 ridm 100 0.1 1949 6393 0.50 0.17 ----0.3 8.9 0.00 0.26 bd1 ridm 19 1980 6495 3.2 0.09 bdI 0.12 0.12 bdl ndm ---0.1

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

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17

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i

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

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

XN is X nitrogen in rock.

%H is % hydrogen in rock.

SI 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 0-C).

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

'bdl' means 'below detection limit'; '---' means 'not determined'.

TYLER I TYL-1

		A	nadeus	Basin	14	3 40 5.	. 13t.	1.32	72 6°	1003.		
	м	FT	% I C	20 - C	ZN	ZH	51	52	IMAX	F I	HI	GP
1	2786	9139	3.6	b # 1	1-4-	+= m ==	9.20	G net	0.11	494	XX 3 6	
2	3563	11688	3.6	0.14		-	-	70.17.00	~	44.90.0	41200	
3	3566	11696	9.4	0.23	11 14 44		hd1	5.31	ridm	4180	20.6	
4	3567	11700	36.5	0.47		m (m)	bd1	ted 1	ridm	1094	4, 993	222
5	3832	12570	1.5	tod I		×1:181	Lo Alley	× 14. ju-	200	** > =	2.5	-
6	3838	12587	0.7	0.50	111 -	1000,000	0.45	tod 1	ndm		1,91111	0.6

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

M is sample depth in meters.

FT is sample depth in feet.

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WATERHOUSE WEST 1 WAT-1

						22.011.00						
		Ar	nadeus B	asin	2	4 00 5.	. lat.	133	06 e.	long.		
ŧ	м	FI	ZIC	Z0- C	ZN	X11	SI	62	THAX	1.1	W.I.	GP
1	1747	5730	31.1	0.60	1 5 7	Y	0.35	1.2	493	0.22	133	1.6
3	1756	5760	20.2	0.20		(**)	0.22	0.7	404	0.24	249	0 - 9
3	1765	5790	20,1	0.57		× -	0.16	0.5	490	0.26	110	0.6
4	1768	5000	30.7	0.83	11.		0.13	0.4	402	0.25	49	0.5
5	1771	5310	40.0	bd1		1.0			111	4 - IX: 4	- ÷ 0	
G	1774	5020	49.5	0.38		-	0.15	0.3	46.5	0.35	74	0.4
7	1805	5920	1.3	0.17	- 1 -	11 -	w 7 9	LYNE	4.6	0.10	11118	
8	1807	5926	1 . 0	bdl	0.940	4-8-4	h	1.40		- 1++ 1	(	
9	1307	5927	1.7	0.50	15 1 =	598.4I	0.09	0.5	400	0.15	103	0.6

Pyrolysis run with CDS Pyroprobe and original interface: TMAX inaccurate.

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