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UNCORRECTED GEOTHERMAL MAP OF AUSTRALIA

by

E. Nicholas, K. Rixon and A. Haupt

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INTRODUCTION

The uncorrected geothermal map and accompanying list was compiled by E. Nicholas and A.H. Haupt, using open-file data from a restricted report prepared by L.K. Rixon and J.L. Duggan which is held in the BMR Petroleum Exploration Branch Special Studies Series (SS338).

The temperature data came from Hematite Petroleum Pty Ltd in the form of temperature/depth plots and lists, and from completion reports for wells drilled under the terms of the Petroleum Search Subsidy Act (PSSA). In Table 1 the wells are listed according to the sedimentary basin intersected, infra-basins being indicated as appropriate.

To determine the geothermal gradients, uncorrected bottom-hole temperatures taken from wireline logs of petroleum exploration wells were plotted on temperature/depth graphs, and a best-fit straight line was drawn through present-day surface temperature (from Meteorological charts) for onshore wells, and assumed sea-bed temperature for offshore. This method provides a rapid means of estimating generalised overall gradients and broad regional trends. It is recognised that, for a more accurate estimate of geothermal gradient, undisturbed formation temperatures should be determined by the application of corrections to the temperature data to allow for mud-circulation effects. However, corrections were not applied, because temperature and time data were not recorded consistently at all the control points.

TABLE 1 GEOTHERMAL GRADIENTS CALCULATED FROM UNCORRECTED
BOTTOM HOLE TEMPERATURES

BASIN Av. temp °C, surf/seabed Well Name	GRADIENT °C/km	DEPTH KB	m below seabed	MAP NO.
<u>AMADEUS</u>				
21				
East Mereenie No. 1	35.48	1435.6		1
Orange No. 1	29.61	2708.45		2
Highway Anticline No. 1	27.25	1149.09		3
Palm Valley No. 1	26.04	2029.35		4
West Waterhouse No. 1	24.8	1989.73		5
Mt Charlotte No. 1	24.51	2116.22		6
Tyler No. 1	20.96	3840.17		7
Ooraminna No. 1	20.61	1861.41		8
Erlunda No. 1	21.68	1665.12		9
Alice No. 1	19.32	2291.48		10
<u>BASS</u>				
13				
Narimba No. 1	37.00	3352.8	3266.53	1
Bass No. 3	36.08	2431.69	2364.02	2
Bass No. 1	35.9	2352.14	2268.0	3
Bass No. 2	34.8	1801.36	1706.57	4
Aroo No. 1	34.65	3691.73	3605.78	5
Nangkero No. 1	30.62	2877.31	2788.00	6
<u>BONAPARTE GULF (offshore)</u>				
27				
Petrel No. 1	24.31	4089.80	3845.35	1
Ashmore Reef No. 1	23.53	3914.54	3865.77	2
Lacrosse No. 1	21.30	3054.09	2996.79	3
Sahul Shoals No. 1	21.30	3802.38	3764.58	4
<u>BONAPARTE GULF (onshore)</u>				
27				
Moyle No. 1	34.72	538.58		1
Bonaparte No. 2	30.63	2136.0		2

Kulshill No. 2	27.68	4393.99	3
Keep River No. 1	26.97	4761.89	4
Bonaparte No. 1	23.53	3209.5	5

BOWEN

21

*Penjobe No. 1	56.08	557.17	1
Bukali No. 1	54.58	669.03	2
Cooroorah No. 1	36.81	1073.81	3
Sunlight No. 1	32.55	1522.17	4
Warrinilla No. 3	30.89	2292.40	5
Rosella Creek No. 1	30.68	601.98	6
Warrinilla No. 1	29.63	2042.46	7
Warrinilla No. 2	29.63	1770.88	8
Struan No. 1	28.03	1839.16	9
Moura No. 1	27.88	3048.00	10
Warrinilla No. 4	27.61	1527.65	11
Warrinilla No. 5	26.04	2050.99	12
Rolleston No. 1	26.04	2898.03	13
Arcturus No. 1	24.95	1890.67	14
*Purbrook No. 1	23.98	1508.45	15
Kildare No. 1	23.36	1744.67	16
Purbrook South No. 1	23.22	1701.33	17
*Cometside No. 1	23.22	1694.99	18
Bandanna No. 1	22.64	1232.30	19
Inderi No. 1	21.68	1655.97	20
Kildare No. 2	20.48	2336.90	21

CANNING (onshore)

24

Hawkstone Peak No. 1	42.46	1187.8	1
Mowla No. 1	37.9	762	2
Willara Hill No. 1	37.36	858.0	3
Babrongan No. 1	37.36	1949.19	4
Edgar Range No. 1	35.90	1967.17	5
Thangoo No. 2	33.7	1472.00	6
Barbwire No. 1	33.71	1071.37	7
Napier No. 1	33.53	1801.36	8

* Intersected Drummond Basin

Parda No. 1	33.53	1906.82	9
Pender No. 1	33.53	911.65	10
Munro No. 1	31.89	2115.61	11
Meda No. 1	31.7	2684.98	12
Napier No. 1	30.8	1801.36	13
Langoora No. 1	30.43	1616.96	14
Willara No. 1	29.70	3903.23	15
May River No. 1	29.70	1677.92	16
Sahara No. 1	29.52	2120.18	17
Thangoo No. 1A		1655.36	18
Lake Betty No. 1	28.02	3145.84	19
Mimosa No. 1	27.7	4117.0	20
Mt Hardman No. 1	27.15	3360.0	21
Barlee No. 1	26.24	2469.18	22
Pt Moody No. 1	26.06	2441.14	23
Wilson Cliffs No. 1	26.06	3722.21	24
McLarty No. 1	25.51	2590.8	25
Contention Heights No. 1	25.5	1790.7	26
Blackstone No. 1	24.05	3049.52	27
Logue No. 1	23.69	2698.69	28
Tappers Inlet No. 1	22.05	2856.28	29
Kidson No. 1	21.87	4431.48	30
Yulleroo No. 1	21.68	4574.74	31
Matches Springs No. 1	20.96	2834.64	32
ST George Range No. 1	20.96	4437.27	33

CANNING (offshore)

24

Wamac No. 1	23.69	2764.0	2678.00	34
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CAPRICORN

21

Aquarius No. 1	27.15	2650.23	1
Capricorn No. 1	24.42	286.51	2

CARNARVON (onshore)

21

Cane River No. 1	48.48	694.02	1
Yaringa No. 1	48.7	2290.87	2

Locker No. 1	47.33	765.65	3
Muiron No. 1	45.12	1785.21	4
Wandagee No. 1	38.9	1073.2	5
East Marilla No. 1	35.39	638.25	6
Kennedy Range No. 1	34.5	2226.56	7
Whaleback No. 1	33.75	1527.96	8
Remarkable Hill No. 1	33.7	3206.49	9
Tamala No. 1	33.26	1225.29	10
Paterson No. 1	32.79	2286.0	11
Tortoise No. 1	32.55	2133.60	12
Marilla No. 1	32.09	456.59	13
Peak No. 1	30.89	2141.52	14
Quail No. 1	29.8	3580.48	15
Barrow No. 1	29.03	2982.46	16
Onslow No. 1	28.2	2997.7	17
Barrow Deep No. 1	27.6	4650	18
Pendock ID No. 1A	26.04	2500.88	19
Kalbarri No. 1	25.60	1539.5	20
Minderoo No. 1	25.4	609.6	21
Observation No. 1	22.6	2292.09	22

CARNARVON (offshore)

21

West Muiron No. 2	30.89	3320.00	3167.00	23
Anchor No. 1	29.61	3048.61	3024.22	24
Edel No. 1	21.68	2749.6	2625.54	25

CLARENCE-MORETON

21

Lockrose No. 1	23.69	1675.48	1
Baylam No. 1	22.68	1202.74	2
Tullymorgan No. 1	22.60	2310.99	3
Kyogle No. 1	21.07	2490.21	4
Sextonville No. 1	20.68	2229.61	5
The Overflow	18.22	912.26	6

EROMANGA/COOPER

21

Tallalia No. 1	41.43	3191.56	1
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Narylco No. 1	41.19	1477.37	2
Chandos South No. 1	40.95	2450.28	3
Durham Downs No. 1	39.20	2749.6	4
Nappacoongie No. 1	38.78	3009.59	5
Galway No. 1	38.53	2704.49	6
Yanpurra No. 1	36.82	2961.43	7
Merrimelia No. 1	36.45	3149.19	8
Packsaddle No. 1	35.74	3168.7	9
Putamurdie No. 1	35.74	1952.54	10
Kalladeina No. 1	35.05	3761.53	11
Brolga No. 1	34.72	2967.22	12
Dullingari No. 1	33.75	3532.02	13
Gilpeppie No. 1	32.26	3265.32	14
Innamincka No. 2	32.26	3585.36	15
Kumbari No. 1	31.43	3639.61	16
Coongie No. 1	31.43	3639.61	17
Pandieburra No. 1	31.43	2210.71	18
Kanowana No. 1	30.89	3122.68	19
Weena No. 1	30.89	1644.7	20
Cherri No. 1	30.38	1400.86	21
Tinga-Tingana No. 1	28.48	2301.84	22
Binerah Downs No. 1	27.83	1291.43	23

EROMANGA/COOPER/ADVALE

21			
Chandos No. 1	45.05	2979.42	24
Betoota No. 1	40.06	2994.35	26
Budgerygar No. 1	39.20	1628.85	27
Thunda No. 1	30.38	2411.88	28

EROMANGA/COOPER/WARBURTON

21			
Cumbroo No. 1	35.63	2268.0	29

EROMANGA/ADVALE

21			
Buckabie No. 1	36.74	2764.53	30

EROMANGA/GALILEE

21			
Ooroonoo No. 1	59.76	1174.08	1

7

Mayneside No. 1	55.11	1640.43	2
Cunno No. 1	52.65	861.97	3
Belmore No. 1	52.09	1058.26	4
Newlands No. 1	49.37	1789.78	5
Stormhill No. 1	49.37	1554.17	6
Weston No. 1	48.30	1982.72	7
Goleburra No. 1	46.02	1581.30	8
Ban Ban No. 1	44.29	1402.68	9
Fermoy No. 1	43.08	1603.85	10
Balfour No. 1	38.85	1694.68	11
Muttaborra No. 1	38.53	1448.71	12
Penrith No. 1	36.74	1242.97	13
Lovelle Downs No. 1	36.45	2027.52	14
Glenaras No. 1	36.45	1637.08	15
Beryl No. 1	34.10	1266.13	16
Maranda No. 1	33.86	1978.45	17
Coreena No. 1	33.61	1587.39	18
Towerhill No. 1	31.36	1489.25	19
Thunderbolt No. 1	29.61	1611.17	20
Brookwood No. 1	29.61	1464.86	21
Valetta No. 1	27.72	1339.90	22
Alice River No. 1	26.90	1631.28	23
Marchmont No. 1	26.48	1990.34	24

EROMANGA/GALILEE/ADAVALE

21

Bodalla No. 1	49.70	2684.98	25
Yongala No. 1	36.45	2027.52	26
Grey Range No. 1	33.44	3491.48	27
Etonvale No. 1	32.69	3464.96	28
Bonnie No. 1	32.02	2744.72	29
Gilmore No. 1	31.18	4346.44	30
Log Creek No. 1	30.78	4439.71	31
Bury No. 1	30.38	2744.41	32
Canaway No. 1	30.38	1504.79	33
Dartmouth No. 1	30.18	3051.04	34
Fairlea No. 1	29.61	3119.62	35
Leopardwood No. 1	29.18	4183.98	36
Cothalow No. 1	29.10	2613.05	37
Stafford No. 1	29.07	3141.26	38

Eastwood No. 1	28.92	3385.10	39
Ravensbourne No. 1	28.56	2357.93	40
Alva No. 1	27.41	3585.97	41
Quilberry No. 1	27.41	3051.96	42
Boree No. 1	27.41	2676.44	43
Carlow No. 1	27.41	3666.13	44
Allandale No. 1	24.95	3004.10	45

EROMANGA/ADAVALE

21

Gumbardo No. 1	28.72	3944.11	46
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EROMANGA/GALILEE/DRUMMOND

21

Saltern Creek No. 1	38.53	1513.63	1
Barcoo No. 1	29.07	1716.32	2
Koburra No. 1	27.24	3259.22	3
Jericho No. 1	22.67	2786.48	4
Lake Galilee No. 1	22.25	3406.14	5

GEORGINA

24

Lucy Ck No. 1	33.51	1105.50	1
Canary No. 1	28.25	980.84	2
Brunette Downs No. 1	26.19	621.79	3
Lake Nash No. 1	25.61	400.81	4
Mulga No. 1	24.46	915.31	5
Huckitta No. 1	25.04	1222.85	6
Netting Fence No. 1	24.11	2031.18	7
Black Mt No. 1	18.35	1679.75	8
Beantree No. 1	18.30	629.1	9

GIPPSLAND (onshore)

16

Wellington Park No. 1	31.35	3660.95	1
Southwest Bairnsdale No. 1	30.62	1196.64	2

GIPPSLAND (offshore)

13

Wahoo No. 1	44.83	945.54	861.54	3
Flathead No. 1	42.46	1064.97	1002.87	4
Dart No. 1	32.99	1219.20	1088.20	5

Dolphin No. 1	32.62	2883.71	2834.71	6
Sole No. 1	30.25	1128.7	990.20	7

GREAT AUSTRALIAN BIGHT

16

Potoroo No. 1	28.47	2924.00	2663.00	1
Platypus No. 1	23.18	3892.90	3674.36	2

EROMANGA/PEDIRKA

24

Hale River No. 1	35.10	1732.17		1
Mt Crispe No. 1	34.26	1721.2		2
Purni No. 1	32.00	1880		3
Witcherrie No. 1	31.14	1463.95		4
McDills No. 1	29.39	3204.97		5
Mokari No. 1	25.15	2385.67		6

HILLSBOROUGH

21

Proserpine No. 1	30.39	1295.4		1
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LAURA

21

Marina No. 1	30.78	1167.07		1
Breeza Plains No. 1	29.34	986.94		2
Lakefield No. 1	29.34	930.24		3

MARYBOROUGH

21

Gregory River No. 1	23.8	3159.86		1
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MULGILDIE

21

Mulgildie No. 1	20.94	1223.16		1
Abercorn No. 1	18.59	2699.30		2

MURRAY

18

Morkalla No. 1	45.93	783.33		1
Tararra No. 1	44.34	1935.17		2

Berri South	43.74	663.54	3
Poopelloe Lake No. 1	41.35	724.50	4
Killendoo No. 1	40.46	755.29	5
Jerilderie No. 1	38.05	1330.75	6
Sunset No. 1	37.23	1001.87	7
Berri North	36.45	944.88	8
Lake Victoria No. 1	35.36	754.38	9
North Renmark	35.36	1224.68	10
Balranald No. 1	32.80	402.94	11
Bancannia North No. 1	31.86	1478.28	12
Blantyre No. 1	26.46	2289.04	13
*Mt Emu No. 1	26.04	1450.54	14
Jupiter No. 1	23.43	1831.23	15
Bancannia South No. 1	18.93	3409.18	16
*Pondie Range No. 1	17.04	3053.48	17
Bundie No. 1	11.66	419.40	18

NAMBOUR

21

St Helena No. 1	31.80	630.63	1
Matjara No. 1	21.50	998.22	2

OFFICER

24

Yowalga No. 1	41.06	612.95	1
Birksgate No. 1	29.98	1878.17	2
Munyarai No. 1	20.90	2899.25	3

OTWAY (onshore)

16

Hindhaugh Creek No. 1	43.8	2376.83	1
Garvoc No. 1	42.17	1534.66	2
Robertson No. 1	39.55	1799.84	3
Moyne Falls No. 1	36.19	1008.27	4
Hawkesdale No. 1	36.19	1773.93	5
Heathfield No. 1	35.9	2286.0	6
Beachport No. 1	35.9	1207.92	7
Sherbrook No. 1	35.45	1656.28	8
Lake George No. 1	35.19	1368.85	9
Robertson No. 2	34.02	1506.01	10

* Intersected Darling Basin

Purrumbete No. 1	33.15	1830.32		11
North Eumeralla No. 1	32.71	2967.8		12
Casterton No. 2	32.71	1526.43		13
Ross Creek No. 1	32.51	3659.12		14
Tullich No. 1	32.26	1634.64		15
Woolsthorpe No. 1	30.74	1971.14		16
Diamond Swamp No. 1	30.62	1595.0		17
Rowans No. 1	30.47	1798.32		18
Port Campbell No. 4	29.67	2596.89		19
Angelsea No. 1	28.83	3067.81		20
Pretty Hill No. 1	28.52	2477.71		21
Beachport East No. 1	28.67	1428.6		22
Casterton No. 1	27.59	2494.78		23
Fergusons Hill	27.57	3546.34		24
Kalangadoo No. 1	27.44	2758.13		25
Douglas Point No. 1	26.72	1206.7		26
Caroline No. 1	26.17	255.72		27
Lake Bonney No. 1	25.28	2910.84		28
Geltwood Beach No. 1	24.31	3749.04		29
Mount Salt No. 1	18.90	3061.41		30

OTWAY (offshore)

13

*Snail No. 1	34.10	1234.74	1143.91	31
Crayfish - A No. 1	30.03	3199.49	3121.76	32
Pecton No. 1A	29.87	2850.49	2754.17	33
Prawn - A No. 1	28.72	3193.39	3058.35	34
Clam No. 1	27.83	1622.45	1490.47	35
*Nerita No. 1	27.24	1889.76	1933.36	36
Nautilus - A No. 1	26.51	2010.77	1889.14	37
Mussel No. 1	26.30	2449.98	2334.46	38
Voluta No. 1	24.58	3973.68	3847.79	39
Argonaut No. 1	20.74	3707.28	3601.82	40

PERTH (onshore)

18

Jurien No. 1	39.06	1025.95		1
Whicherina No. 1	33.26	1685.54		2
Narlingue No. 1	32.58	2130.24		3
Yardarino No. 1	32.58	2377.44		4

*Torquay Basin

Eganu No. 1	32.25	600.45	5
Woolmulla No. 1	32.17	2811.47	6
Mungarra No. 1	31.24	609.29	7
Preston No. 1	30.56	765.35	8
Hill River No. 4	29.30	307.84	9
Barragoon No. 1	28.43	2335.0	10
Gun Island No. 1	26.31	3724.65	11
Heaton No. 1	25.49	2438.40	12
Cadda No. 1	24.98	2794.71	13
Donkey Creek No. 1	23.54	3852.67	14
Walyering No. 1	23.36	3643.27	15
Pinjarra No. 1	22.03	4572.3	16
Cockburn No. 1	22.03	3054.09	17
Coomallo No. 1	21.31	3520.0	18
Sue No. 1	20.08	3074.21	19
Gingin No. 1	20.08	4543.95	20
Blackwood No. 1	18.93	3332.98	21
Wonnerup No. 1	18.79	4727.44	22
Lake Preston No. 1	18.22	4565.0	23
Whicher Range No. 1	17.58	4653.07	24
Bullsbrook No. 1	17.04	4257.0	25

PERTH (offshore)

13

Roe No. 1	32.13	2133.90	1999.18	26
Gage Roads No. 1	30.38	3660.34	3557.01	27
Warnbro No. 1	29.16	3660.34	3588.10	28
Charlotte No. 1	29.05	2435.35	2362.81	29
Quinns Rock No. 1	27.52	2204.19	2144.57	30
Sugarloaf No. 1	26.42	3657.90	3581.4	31

SURAT

21

Canaan No. 1	43.92	498.34	1
Jandowae South No. 1	43.08	616.00	2
Baradine West No. 1	35.39	591.92	3
Baradine West No. 2	35.39	502.61	4
Alba No. 1	34.10	826.92	5
Durabilla West No. 1	33.44	1349.95	6
Kincora No. 1	32.46	1491.99	7

*Warrong No. 1	32.24	1089.00	8
Foyleview No. 1	31.97	1206.09	9
*Tooloombilla No. 1	31.58	533.40	10
*St George No. 1	31.42	1431.03	11
*Rosewood No. 1	29.63	632.46	12
Maranoa No. 1	29.25	1444.44	13
*Kogan No. 1	28.92	1047.59	14
*Lorne No. 1	28.92	1295.40	15
Millmerran No. 1	28.92	584.91	16
Mount Hope No. 1	28.92	780.89	17
*Crystalbrook No. 1	28.37	627.88	18
*Cecil Plains South No. 1	27.83	1117.70	19
Glenroy No. 1	27.83	1197.55	20
*Bohena No. 1	27.62	1650.18	21
*Koorunga No. 1	27.61	555.65	22
*Boomi No. 1	27.23	1695.29	23
Kumbarilla No. 1	26.99	1229.56	24
*Goondiwindi No. 1	26.33	2222.60	25
*Cecil Plains No. 1	26.33	1676.70	26
Marmadua No. 1	26.04	1502.96	27
Piebald No. 1	26.04	1130.19	28
Scalby No. 1	26.04	867.15	29
Kogan South No. 1	25.67	1072.59	30
Durabilla No. 1	25.67	1328.31	31
Moonie No. 1	25.62	1861.10	32
Yarrala No. 1	25.13	900.68	33
Cecil Plains West No. 1	25.13	1161.89	34
*Kinnimo No. 1	25.13	1583.43	35
*Myall Creek No. 1	24.97	2182.06	36
*Westgrove No. 3	24.56	3859.68	37
*Weribone No. 1	24.44	2436.87	38
*Moree No. 1	24.18	1147.52	39
*Garah No. 1	24.18	1600.08	40
*Gil Gil No. 1	24.05	1602.02	41
Conloi No. 1	23.82	1830.32	42
Glenhaughton No. 1	23.82	2870.60	43
Werrina No. 1	23.36	1419.45	44
*Alton No. 1	22.89	2233.57	45
*Limebon No. 1	22.67	2010.15	46
*Mt Pleasant	22.56	2266.18	47

*Werrina No. 2	22.51	1566.67	48
*Flinton No. 1	22.40	2780.69	49
*Cockatoo Creek No. 1	22.50	3682.59	50
*Killoran No. 1	22.50	716.28	51
*Burunga No. 1	22.50	3121.76	52
*Weringa No. 1	22.50	1516.99	53
*Paget No. 1	22.09	1637.38	54
*Tinker Creek No. 1	22.09	1282.29	55
*Arbroath No. 1	22.09	2550.26	56
*Wee Waa	21.07	824.78	57
*Yarrill Creek No. 1	20.48	1385.31	58
*Minima No. 1	20.48	2176.88	59
Sandy Camp	20.37	738.83	60
Sawpit Gully No. 1	20.03	1463.34	61
*Wandoan No. 1	19.81	3272.33	62
*Macintyre No. 1	19.39	2535.63	63
Waggaba No. 1	18.79	1226.82	64
*Tingan No. 1	18.79	1815.69	65
*Glentulloch No. 1	14.58	1244.49	66

*Intersected Bowen Basin

ST VINCENT

24

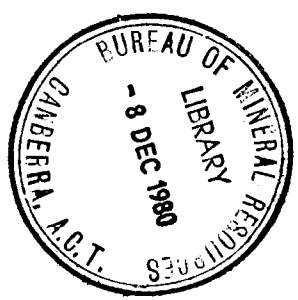
Grange No. 1	38.45	604.41	1
Stansbury West No. 1	28.67	1744.67	2
Stansbury Town No. 1	28.67	1268.57	3
Edithburgh No. 1	19.81	1053.08	4

SYDNEY

15.6

Higher McDonald No. 1	41.50	627.88	1
Jerry's Plains No. 1	35.19	1595.62	2
Martindale No. 1 & 1A	34.72	1181.4	3
Stockyard Mountain No. 1	32.097	1071.67	4
Kurrajong Heights No. 1	30.20	2785.3	5
Howes Swamp No. 1	28.36	2569.76	6
Dural South No. 1	27.10	3058.66	7
Woronora No. 1	26.17	2312.51	8

Camberwell No. 1	25.49	1906.82	9
Kirkham No. 1	25.49	2562.14	10
East Maitland No. 1	23.00	3049.21	11
Loder No. 1	22.20	2063.19	12



AUSTRALIA UNCORRECTED GEOTHERMAL MAP

Well locations, and geothermal gradients calculated
from uncorrected bottom hole temperatures

SCALE 1:5,000,000

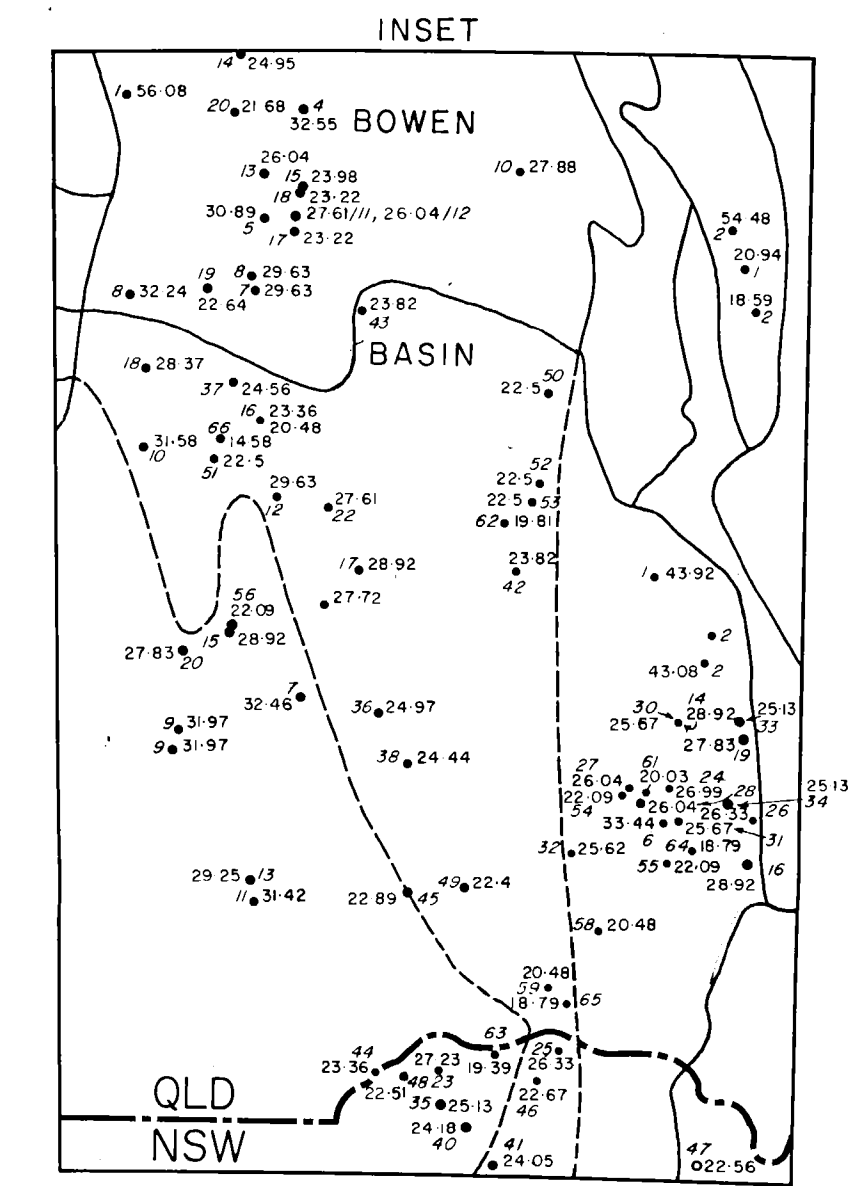
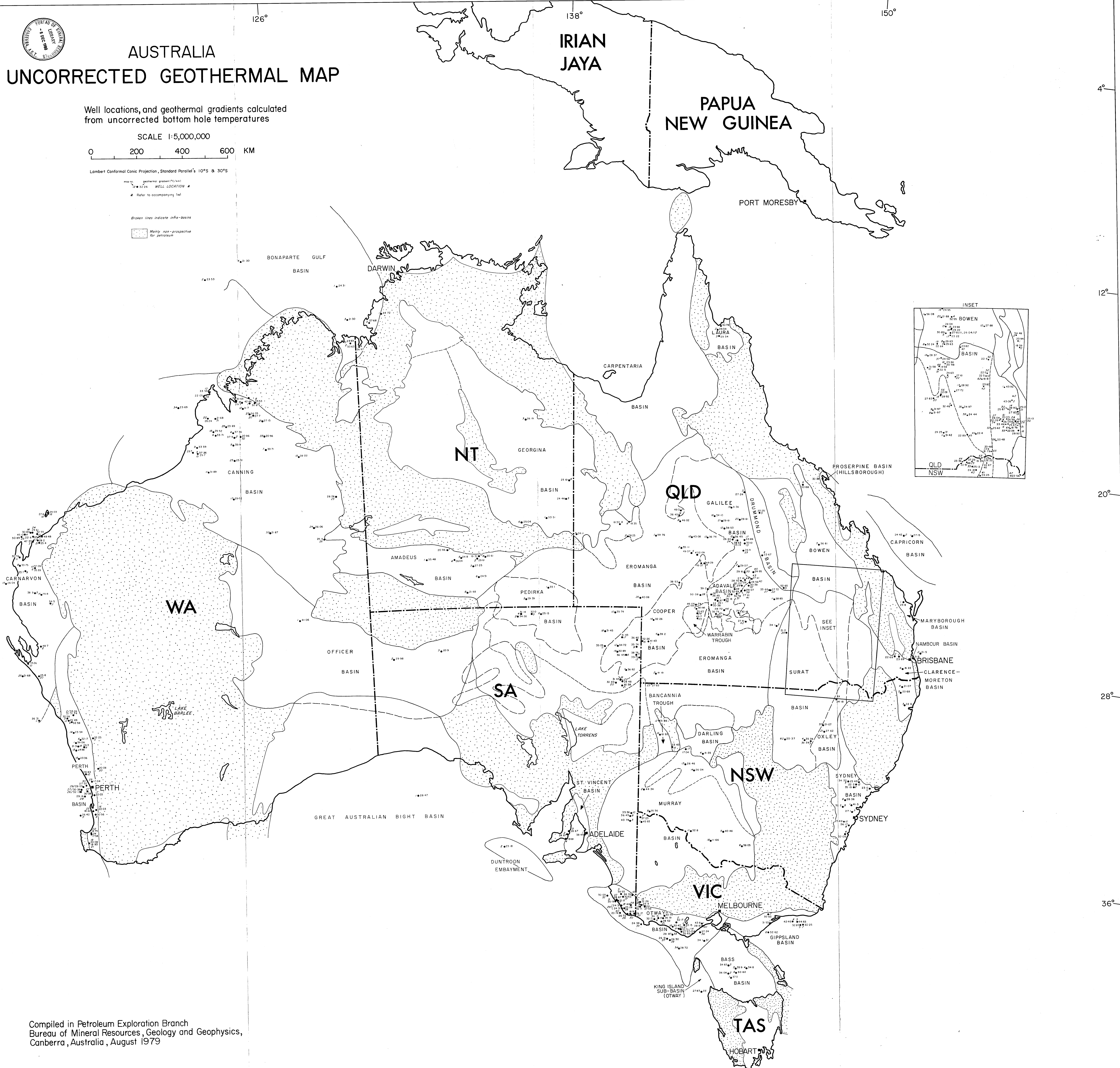
0 200 400 600 KM

Lambert Conformal Conic Projection, Standard Parallel's 10°S & 30°S

map no. geothermal gradient (°C/km)
10 32.51 WELL LOCATION #
* Refer to accompanying list

Broken lines indicate intra-basins

Mainly non-prospective
for petroleum



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