EXPLORATION LICENCE 3164

FIELD RIVER, NORTHERN TERRITORY

FINAL REPORT

and

REPORT FOR THE QUARTER ENDED 9th FEBRUARY, 1982

FEBRUARY, 1982

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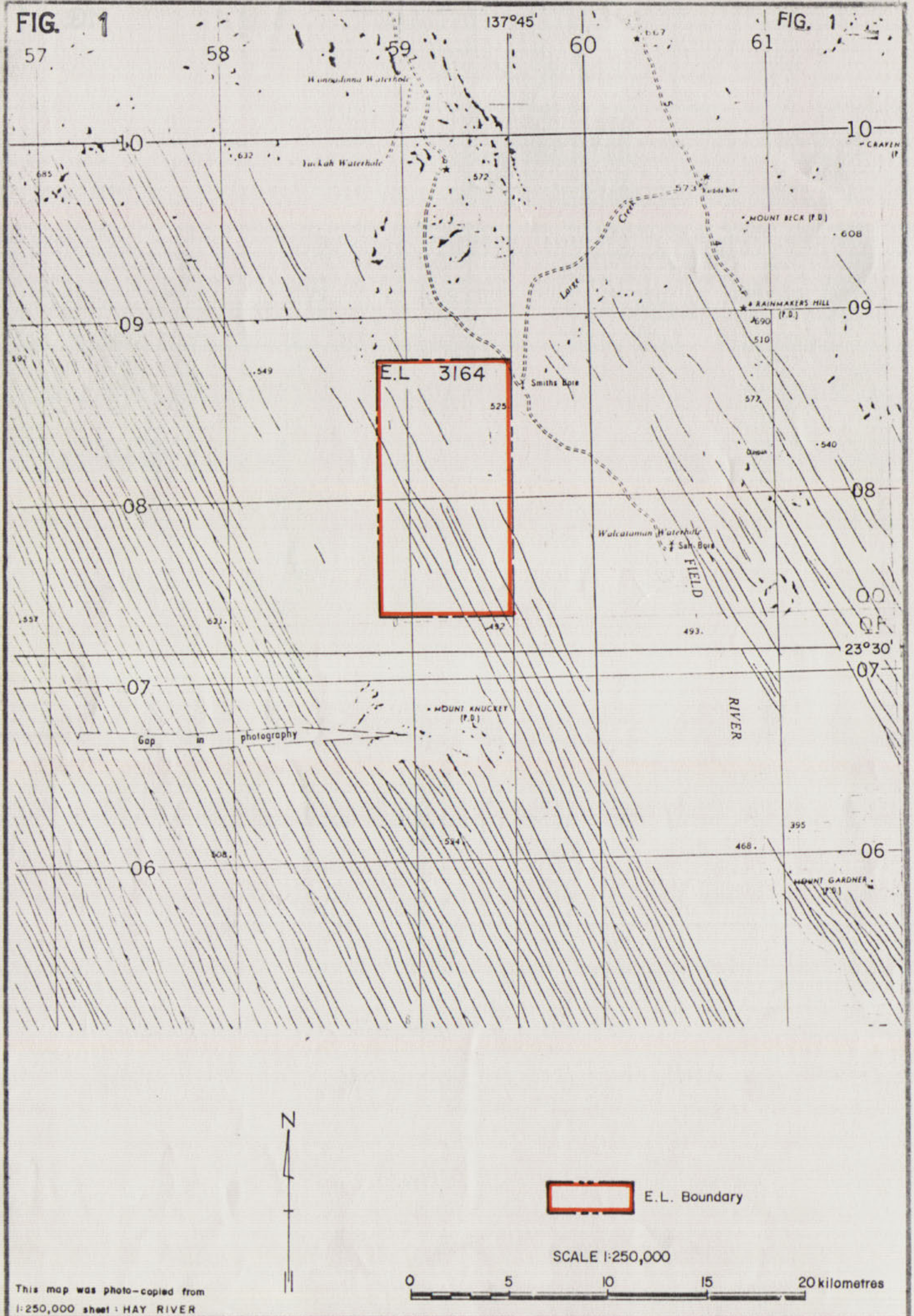


Centre Adelaide	THE BROKEN HILL PROPRIETARY CO. LTD.	Project No. 8-F340-1
Date 30-9-81	E.L. 3164 FIELD RIVER, N.T. LOCATION MAP	Drawing No. A4-157

EXPLORATION LICENCE 3164

FIELD RIVER, NORTHERN TERRITORY

FINAL REPORT and

REPORT FOR THE QUARTER ENDED 9th FEBRUARY, 1982

1. GENERAL STATEMENT

Exploration Licence 3164 was taken up primarily to test the diamond potential of the area. A subsidiary interest was the potential for base metal mineralisation.

Exploration commenced with an aeromagnetic survey, followed by ground follow-up to delineate selected anomalies. These were then drilled to ascertain the presence of kimberlites.

2. TITLES

Exploration Licence 3164 of 33.99 square miles was granted to Dampier Mining Company Limited (now BHP Minerals Limited) on 9th November, 1981 for one year (Figure 1). The Exploration Licence was relinquished on 31st December, 1981.

3. FIELD INVESTIGATIONS

3.1 Aeromagnetic Survey

A detailed aeromagnetic and radiometric survey was flown over the exploration licence. The survey was flown by Geoex Pty. Ltd., 50 Mary Street, Unley, Adelaide. The technical details of the survey were:-

Line Spacing	300 metres
Survey Height	75 metres
Magnetometer	Sonotex
Spectrometer Crystal Volume	1025 cu. in.

This work was undertaken at the same time as a larger survey was flown over the Toomba Range a few miles east in Queensland. Geophysical interpretation of this survey delineated five anomalies as potential kimberlite type intrusions. The results of this survey are shown as a Total Magnetic Intensity Contour Map 1:100,000 (Figure 2) and on a larger scale (Figure 3) at 1:25,000.

3.2 Sacred Sites Survey

The anomaly sites and potential drill sites were visited by traditional owners and a Senior Anthropologist from the Central Land Council. The exploration work planned was cleared by the Central Land Council together with access to the area. A helicopter was used for a day to carry out this work quickly. The total cost for the Sacred Sites Survey totalled $5,428.

cont./..

3.3 Ground Magnetometer Survey

The five selected anomalies were visited on the ground using a helicopter. Each was located using three or four ground magnetometer traverses at a spacing of 100 metres. The total length of ground traverse was 21.1 kilometres comprising lines between 1 and 2 kilometres in length. (Figure 4).

3.4 Drilling

Geophysical interpretation of the ground magnetometer surveys outlined a number of drill hole targets to test anomalies 12, 13, 14, 18 and 19. Five bore holes were drilled. The details are summarised below:-

Bore Hole No.	Anomaly No.	Depth (m)	Rock Type
PMW13	18	64	Arkose (Cambrian)
14	18	63	
15	14	50	Arkose (Cambrian)
16	12	46	Arkose (Cambrian)
17	13	50	Arkose (Cambrian)
	Total	273m	

Anomaly 19 could not be reached by the vehicles available due to the presence of two large sand dunes. Therefore it was not tested.

The drilling was carried out by Evans Exploration and Water Drilling Co. Pty. Ltd., Armadale, Western Australia using a Mole Pioneer Rig. The rock chips were sampled at 2 metre intervals. These two metre samples were analysed by Comlabs Pty. Ltd., 305 South Road, Mile End South, S.A. 5031 for the following elements: - copper, lead, zinc, cobalt and nickel together with a niobium analysis from the bottom sample in each hole. The location of the drill holes are shown on Figure 4.

4. RESULTS OF FIELD INVESTIGATIONS

4.1 Aeromagnetic Anomalies

The interpretation of the aeromagnetic contours (Figure 2) produced 5 anomalies considered to be potential kimberlite intrusions, namely Anomalies 12, 13, 14, 18 and 19.

4.2 Ground Magnetic Anomalies

The ground magnetometer traverses are shown on Figure 4. These anomalies were studied and considered to be possible kimberlite bodies. A drilling programme was proposed with a drill hole at each anomaly to ascertain the presence of a kimberlite as the possible cause of the anomaly.

cont./..

4.3 Drilling Programme

Five holes were drilled totalling 273 metres. No intrusive source rocks were located. The rocks found are sediments, mainly clays, shales and arkose sandstones which can be related to the Adelaidean sediments of the region, the Gnallan-A-Gnea Arkose. This correlation is based upon geological data from the Adam Special 1:100,000 Geology sheet. (Parts of sheets 6451, 6450, 6351). The detailed core logs and analysis sheets are attached as Appendix 1.

5. CONCLUSIONS

No kimberlitic rocks were located in the drill holes, therefore no further work is warranted.

6. EXPENDITURE

The total expenditure debited to Exploration Licence 3164 was: -

Wages and Salaries	$ 5,158
Messing and Accommodation	542
Fares and Mobilisation	656
Drilling	3,055
Transport	2,069
Aircraft Charter	5,964
Geophysics	3,690
Plant Services	150
Consultants	465
Administration/Overheads	2,175
	$23,924

This report is submitted to the Department of Mines and Energy as required by Condition 7 of Exploration Licence 3164.

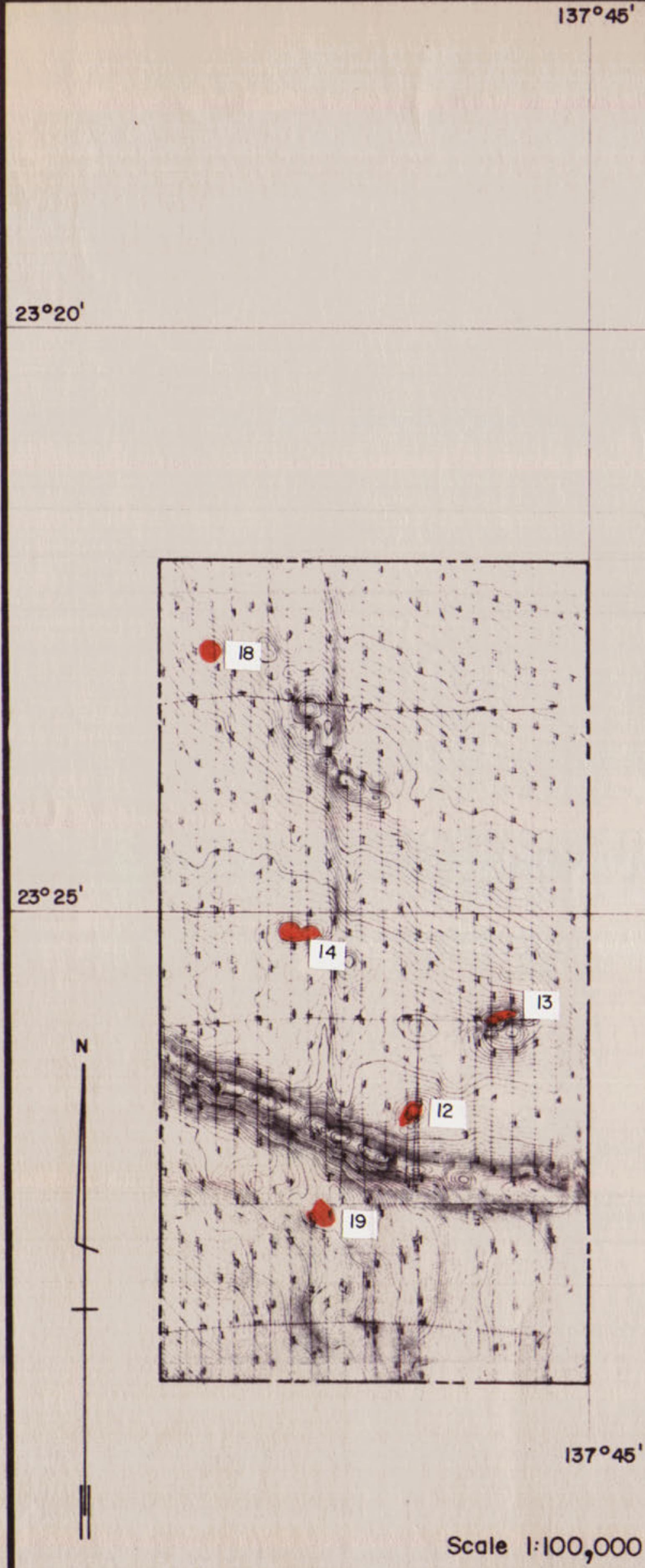
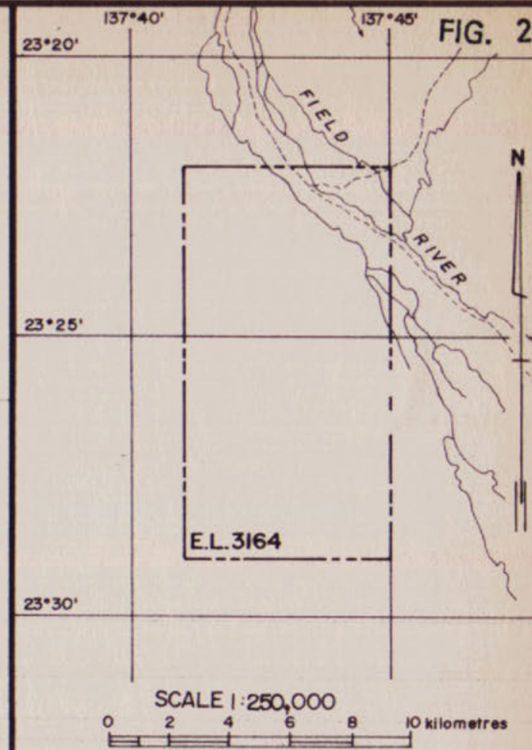


FIG. 2



LOCATION MAP

DETAILS OF SURVEY

FLOWN BY : GEOEX
DATE : OCTOBER 1980
250,000 SHEET : HAY RIVER
AMG ZONE : 53

LINE SPACING : 300
SURVEY HEIGHT : 75 m
MAGNETOMETER : SONOTEK

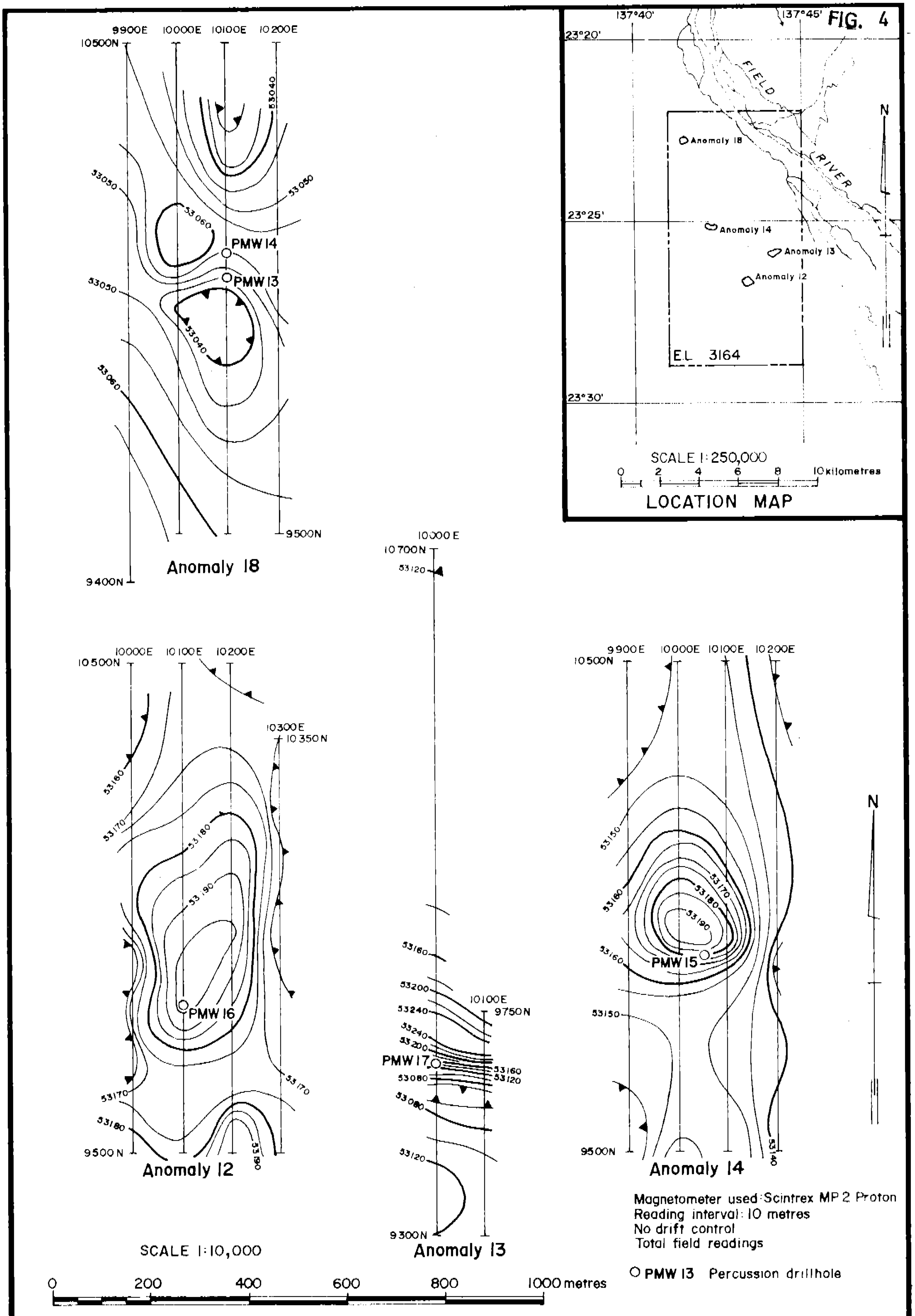
COMPTON SCATTERING RATIO ALPHA : 50
COMPTON SCATTERING RATIO BETA : 50
COMPTON SCATTERING RATIO GAMMA : 50

DETAILS OF PROCESSING

PROCESSED BY BHP EXPLORATION : CAMBERWELL
MESH : (100, 100)
SCAN : 700

Aeromagnetic anomalies

Centre ADELAIDE	THE BROKEN HILL PROPRIETARY CO. LTD.	Project No. 8 - F340 - 4
Date 10 - 2 - 82	E.L. 3164 FIELD RIVER, N.T. TOTAL MAGNETIC INTENSITY CONTOURS	Drawing No. A4 - 177



Centre Adelaide	THE BROKEN HILL PROPRIETARY CO. LTD. E.L. 3164 FIELD RIVER, N.T. GROUND MAGNETIC CONTOURS AND DRILLHOLES ANOMALIES 12, 13, 14 AND 18	Project No. 8-F340-2
Date 3-11-81		Drawing No. A4-161

APPENDIX 1

Drill Core Logs and Analysis Sheets, Drillholes PMW13-17

Drilling Header Sheets

Drilling Sample Description Sheets

Analyses for Drill Hole	PMW13	Anomaly	8
	PMW14		18
	PMW15		14
	PMW16		12
	MPW17		13

PROJECT No. F340

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING HEADER

1	2	3	SHEET No. 4	5	6	7	8	9	10	11	12	13
8	1	1	1	1	4	3	1	3	0	1	1	0

PUNCH IN EVERY CARD

GENERAL LOCATION

14 A

State N.T. (State 15 16) Region FIELD RIVER (Region 17 18) Zone (Zone 19 20 21)

SPECIFIC LOCATION OF COLLAR

Either EASTING (22–31) 10100 E NORTHING (32–41) 10025 N Or LONGITUDE: DEGREES (22 23 24) MINS. (25 26) SECONDS (27–31) · LATITUDE: DEGREES (32 33 34) MINS. (35 36) SECONDS (37–41)

REDUCED LEVEL (42–48)

Feet – F
Metres – M
Units (49): M

Grid ANOMALY 18. GRID (50 51 52)

Complete this section if borehole is a continuation of a previous borehole.

Previous borehole no.

Previous header sheet no.

DRILLING DETAILS

BOREHOLE No. (53–60)	SERIAL No. (61–67)	COMPANY (68–77)
PMW-13.		BHP

Bits used

Drillers names EVANS DRILLING

14 B

COMMENCED DAY (15 16)	MONTH (17 18)	YEAR (19 20)	COMPLETED DAY (21 22)	MONTH (23 24)	YEAR (25 26)	LOGGED BY (27–39)
5	10	81	5	10	81	R. J. TAYLOR

Type of drilling (40): R

DRILLING UNIT (41–50): MOLE PIONEER

TOTAL DEPTH (51–56)	DEPTH TO H_2O (57–62)	DEPTH OF OXIDATION (63–68)
64.00	NONE	

Orientation at collar: BEARING (69 70 71) DEP. (72 73): 90

True North – T
Magnetic North – M
Grid North – G
(74): G

Survey readings taken down the borehole

14 C

BEARING (15 16 17)	DEP. (18 19)	DEPTH (20–25)	BEARING (26 27 28)	DEP. (29 30)	DEPTH (31–36)	BEARING (37 38 39)	DEP. (40 41)	DEPTH (42–47)	BEARING (48 49 50)	DEP. (51 52)	DEPTH (53–58)	BEARING (59 60 61)	DEP. (62 63)	DEPTH (64–69)

Form No. 471

REGION [redacted]Ri[redacted]R

PROJECT No. F 340

BOREHOLE No. PMW. 13.

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

[redacted]HEAD[redacted] SHEET No.		
1 2 3	4 5 6 7 8 9	10 11 12 13 14
8 3 2	/ / 4 3 / 3	0 / 1 9 2
PUNCH IN EVERY CARD		

SAMPLE NUMBER ALPHA PREFIX (15 16 17)	NUMERICAL VALUE (18–23)	SUF (24)	FOOTAGE FROM (25–30)	FOOTAGE TO (31–36)	% RECOVERY (37 38 39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) if Composite (42)	ROCK TYPE (43–46)	MINERALIZATION TYPE Magnetics	MINERALIZATION AMOUNT	Chemical Tests	SAMPLE DESCRIPTION
DEA	428		0·00	2·00						-ve			Red brown Sand.
	429		2·00	4·00						-ve			Soft grey clay with calcrete
	430		4·00	6·00						-ve			White sandy clay + red mottled SS.
	431		6·00	8·00						-ve			Buff soft clay sandstone + Fe staining
	432		8·00	10·00						-ve			" " " " " "
	433		10·00	12·00						-ve			" " " " + ~~red~~ clay.
	434		12·00	14·00						-ve			Green buff clay SS with stiff yellow clay
	435		14·00	16·00						-ve			" " " " " " " "
	436		16·00	18·00						-ve			Stiff yellow clay dominant.
	437		18·00	20·00						-ve			Stiff grey green clay
	438		20·00	22·00						-ve			White, grey, yellow & brown clays
	439		22·00	24·00						-ve			White green clays.
	440		CONTROL										
	441		24·00	26·00						-ve			Stiff purple clay
	442		26·00	28·00						-ve			" " "
	443		28·00	30·00						~~-ve~~			Stiff purple brown mottled clay
	444		30·00	32·00						-ve			Brown to purple soft clays.
	445		32·00	34·00	Foam added					-ve			Brown-red mud.
	446		34·00	36·00									Brown mud - purple clay frags
	447		36·00	38·00									Brown mud.
	448		38·00	40·00									" "
	449		40·00	42·00									" " + grey green clay frags.
	450		42·00	44·00									" " " " " "

REMARKS –

Date .... Logged by ....

Form No. 472

SHEET № 123067

REGION [illegible] RIVER

PROJECT No. F 340

THE BROKEN HILL PROPRIETARY CO. LTD.

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13
8	4	2	1	1	4	2	1	3	0	1		0

PUNCH IN EVERY CARD

ANALYSIS

Card 14	Sample Number: Alpha Prefix (15–17)	Numerical Value (18–23)	Suf. (24)	Cu / AAS (25–30)	Pb / AAS (31–36)	Zn / AAS (37–42)	Co / AAS (43–48)	Ni / AAS (49–54)	Nb / XRF (55–60)	(61–66)	(67–72)
2		428		12	15	18	5	5			
2		429		4	10	14	5	<5			
2		430		6	10	16	10	10			
2		431		8	15	10	5	<5			
2		432		6	10	8	5	5			
2		433		10	10	6	5	<5			
2		434		8	10	6	5	5			
2		435		12	10	20	5	<5			
2		436		16	30	26	5	10			
2		437		16	30	12	5	5			
2		438		32	25	32	10	5			
2		439		14	20	14	5	5			
2		440		32	5	40	35	200			
2		441		12	5	16	5	15			
2		442		16	10	18	5	10			
2		443		14	10	110	25	35			
2		444		6	5	110	20	50			
2		445		22	10	90	20	45			
2		446		24	10	70	15	40			
2		447		20	10	65	15	35			
2		448		22	10	75	20	40			
2		449		24	10	95	30	55			
2		[illegible]		20	10	110	30	35			

14	DATE ANALYSED Day (15–16)	Month (17–18)	Year (19–20)	PLACE ANALYSED (21–29)
1	13	11	81	AMDEL

PPM – M / WT % – W (30): M

SAMPLING METHOD (31–33):

SAMPLE PREPARATION (34–35):

ANALYSIS SCHEME (36–37):

FRACTION SCHEME (38–39):

No. 122007

REGION: FIELD RIVER

PROJECT No.: F 340.

BOREHOLE No.: PMW. 13

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

HEADER		SHEET No.	
1 2 3	4 5 6 7 8 9	10 11 12 13 14	
8 3 2	1 1 4 3 1 3	0 2 1 9 2	

PUNCH IN EVERY CARD

SAMPLE NUMBER: ALPHA PREFIX (15 16 17)	NUMERICAL VALUE (18–23)	SUF (24)	FOOTAGE: FROM (25–30)	TO (31–36)	% RECOVERY (37–39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) Tr. Composite (42)	ROCK TYPE (43–46)	MINERALIZATION: TYPE Magnetics	AMOUNT	Chemical Tests	SAMPLE DESCRIPTION
DEA	451		44.00	46.00									Brown mud with grey green clay frag
	452		46.00	48.00									" " " " " " "
	453		48.00	50.00									" " " " " " "
	454		50.00	52.00									" " " " " + laterite frag
	455		52.00	54.00									" " lateritic + red br frags
	456		54.00	56.00									" " 2cm laterite " " "
	457		56.00	58.00									" " laterite " " "
	458		58.00	60.00									" " " " "
	459		60.00	62.00									Orange brown mud with laterite frags
	460		CONTROL										
	461		62.00	64.00									Yellow brown mud with plenty of laterite and yellow siltstone fragments.
													Discussed with DGP and stopped.

REMARKS –

Date: 19 · 10 · 81 Logged by: R. J. Taylor.

RE[redacted] ... [illegible] ... [redacted]

PROJECT No. 5340

- BRO[redacted] HIL[redacted]ARY CO. LTD.

HEA[redacted] SHEET No.

1	2	3	4	5	6	7	8	9	10	11	12	13
8	4	2	1	1	4	3	1	3	[illegible]	[illegible]		0

PUNCH IN EVERY CARD

ANALYSIS

14	SAMPLE NUMBER: ALPHA PREFIX (15–17)	NUMERICAL VALUE (18–23)	Suf. (24)	Cu (25–27) Method of Analysis: AAS	Pb (31–33) Method of Analysis: AAS.	Zn (37–39) Method of Analysis: AAS	Co (43–45) Method of Analysis: AAS	Ni (49–51) Method of Analysis: AAS	Nb (55–57) Method of Analysis: XRF.	ANALYSIS (61–66)	ANALYSIS (67–72)
2	DEA	451		24	10	110	20	35.			
2		452		12	10	110	20	30			
2		453		26	10	150	20	30			
2		454		26	15	150	20	30			
2		455		24	20	170	20	20			
2		456		34	15	210	25	20			
2		457		34	15	160	20	25.			
2		458		20	10	110	15	20			
2		459		18	10	100	20	20			
2		460		34	10	84	35	230			
2		461		18	10	70	15	25	12		
2											
2											
2											
2											
2											
2											
2											
2											
2											
2											
2											

14	DATE ANALYSED Day (15 16)	Month (17 18)	Year (19 20)
1	13	11	81

PLACE ANALYSED (21–29): AMDEL

PPM – M / WT % – W (30): M

SAMPLING METHOD (31 32 33): 1 2 3

SAMPLE PREPARATION (34 35): 1 2

ANALYSIS SCHEME (36 37)

FRACTION SCHEME (38 39)

Form No. 473

No 123068

PROJECT No. F.340

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING HEADER

1	2	3	SHEET No. 4	5	6	7	8	9	10	11	12	13
8	1	1	1	1	4	3	1	4	0	1	1	0

PUNCH IN EVERY CARD

GENERAL LOCATION

14 A

State NT State 15 16

Region FIELD RIVER Region 17 18

Zone Zone 19 20 21

SPECIFIC LOCATION OF COLLAR

Either EASTING (22–31): 10100 E NORTHING (32–41): 10075 N Or LONGITUDE DEGREES (22 23 24) MINS. (25 26) SECONDS (27 28 29 30 31) LATITUDE DEGREES (32 33 34) MINS. (35 36) SECONDS (37 38 39 40 41)

REDUCED LEVEL (42–48):

Feet – F
Metres – M
Units (49): M

Grid ANOMALY 18 GRID (50 51 52):

Complete this section if borehole is a continuation of a previous borehole.

Previous borehole no.

Previous header sheet no.

DRILLING DETAILS

BOREHOLE No. (53–60)	SERIAL No. (61–67)	COMPANY (68–77)
PMW 14		BHP

Bits used

Drillers names EVANS DRILLING

14 B

COMMENCED DAY (15 16)	MONTH (17 18)	YEAR (19 20)	COMPLETED DAY (21 22)	MONTH (23 24)	YEAR (25 26)	LOGGED BY (27–39)
5	10	81	5	10	81	R.J. TAYLOR

Type of drilling (40): R

DRILLING UNIT (41–50): MOLE PIONEER

TOTAL DEPTH (51–56)	DEPTH TO H_2O (57–62)	DEPTH OF OXIDATION (63–68)
63.00	NONE	

Orientation at collar BEARING (69 70 71): DEP. (72 73): 90

True North – T
Magnetic North – M
Grid North – G
74: G

Survey readings taken down the borehole

14 C

BEARING	DEP.	DEPTH	BEARING	DEP.	DEPTH	BEARING	DEP.	DEPTH	BEARING	DEP.	DEPTH	BEARING	DEP.	DEPTH
15 16 17	18 19	20 21 22 23 24 25	26 27 28	29 30	31 32 33 34 35 36	37 38 39	40 41	42 43 44 45 46 47	48 49 50	51 52	53 54 55 56 57 58	59 60 61	62 63	64 65 66 67 68 69

REGION FIELD RIVER

PROJECT No. F.340

BOREHOLE No. PMW 14

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

	1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13	14
	8	3	2	1	1	4	3	1	4	0	1	1	9	2

PUNCH IN EVERY CARD

SAMPLE NUMBER Alpha Prefix (15-17)	Numerical Value (18-23)	Suf (24)	FOOTAGE From (25-30)	FOOTAGE To (31-36)	% Recovery (37-39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) TT Composite (42)	Rock Type (43-46)	Mineralization Type: Magnetics	Mineralization Amount	Chemical Tests	Sample Description
DEA	462		0.00	2.00						1 grain			Red brown sand with some clay.
	463		2.00	4.00						Few grains			Buff coloured sandy clay.
	464		4.00	6.00						" "			Grey green clay sand.
	465		6.00	8.00						-ve			" " " " .
	466		8.00	10.00						-ve			Compact " " " " .
DEA	467		10.00	12.00						-ve			" grey green clay + apple green amorph. a
	468		12.00	14.00						-ve			Green grey mottled sandy clay
	469		14.00	16.00						-ve			Green grey and yellow clays
	470		16.00	18.00						-ve			Stiff yellow clay and grey pink clay
	471		18.00	20.00						-ve			Stiff grey micaceous clay
	472		20.00	22.00						-ve			Yellow sandy clay - stiff grey clay
	473		22.00	24.00						-ve			" " " " "
	474		24.00	26.00						-ve			Grey green and brown sandy clay
	475		26.00	28.00						-ve			Yellow sandy clay
	476		28.00	30.00						-ve			" " " + Pink frags.
	477		30.00	32.00						-ve			Pink, brown, purple fragments
	478		32.00	34.00						-ve			Yellow brown clay.
	479		34.00	36.00						-ve			Purple brown clay.
	480		CONTROL										
	481		36.00	38.00						-ve			" " " .
	482		38.00	40.00						-ve			Mottled purple brown clay fragments
	483		40.00	42.00						-ve			" " " " "
	484		42.00	44.00						-ve			" " " " " .

REMARKS –

Date 19. 10. 81 Logged by R.J. Taylor

REGION: RED RIVER

PROJECT No.: E 340

14.

THE BROKEN HILL PROPRIETARY CO. LTD.

ANALYSIS

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13
8	4	2	1	1	4	3	1	4	2	1		0

PUNCH IN EVERY CARD

14 (0)	SAMPLE NUMBER: ALPHA PREFIX (15–17)	NUMERICAL VALUE (18–23)	Suf. (24)	Cu — AAS. (25–30)	Pb — AAS (31–36)	Zn — AAS (37–42)	Co — AAS (43–48)	Ni — AAS (49–54)	Nb — XRF. (55–60)	(61–66)	(67–72)
2		462		10	10	14	10	15			
2		463		10	10	28	10	10			
2		464		10	5	18	5	5			
2		465		6	5	8	10	15			
2		466		4	10	2	5	<5			
2	DEN	467		6	15	8	5	5			
2		468		6	10	14	5	5			
2		469		6	15	14	5	5			
2		470		8	10	10	5	5			
2		471		8	30	26	5	5			
2		472		8	15	22	5	5			
2		473		8	15	12	5	5			
2		474		6	5	12	5	5			
2		475		12	10	12	5	5			
2		476		18	10	36	10	10			
		[illegible]		14	10	50	15	25			
2		478		6	5	40	10	20			
2		479		6	5	46	15	25			
2		[illegible]		34	10	36	35	210			
2		[illegible]		6	5	100	25	45			
2		[illegible]		4	5	75	20	40			
2		483		<2	5	110	25	45			
2		[illegible]		2	5	100	25	50			

DATE ANALYSED	Day (15–16)	Month (17–18)	Year (19–20)
14: 1	13	11	81

PLACE ANALYSED (21–29): AMDEL

PPM – M / WT % – W (30): M

SAMPLING METHOD (1 2 3; 31 32 33):

SAMPLE PREPARATION (1 2; 34 35):

ANALYSIS SCHEME (36 37):

FRACTION SCHEME (38 39):

No 122069

REGION FIELD RIVER
PROJECT No. F. 340
BOREHOLE No. PMW.14

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

HEADER SHEET No.														
1	2	3	4	5	6	7	8	9	10	11	12	13	14
8	3	2	1	1	4	3	1	4	0	2	1	9	2

PUNCH IN EVERY CARD

SAMPLE NUMBER ALPHA PREFIX (15-17)	NUMERICAL VALUE (18-23)	SUF (24)	FOOTAGE FROM (25-30)	FOOTAGE TO (31-36)	% RECOVERY (37-39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) Tr. Composite (42)	ROCK TYPE (43-46)	MINERALIZATION TYPE	MINERALIZATION AMOUNT	Chemical Tests	SAMPLE DESCRIPTION
DEA	485		44.00	46.00									Brown clay fragments dominant.
	486		46.00	48.00	Foam added								Brown clay (Moist only)
	487		48.00	50.00									Soft brown mud - no fragments
	488		50.00	52.00									Soft brown mud - few clay fragments
	489		52.00	54.00									" " " " " "
	490		54.00	56.00									" " " " " "
	491		56.00	58.00									Red brown mud and fragments
	492		58.00	60.00									Dk red brown mud, clay, siltstone frag.
	493		60.00	62.00									" " " " + red-br " "
	494		62.00	64.00									Red-br siltstone fragments and
													laterite.
													Laterite outcrop 100m west of
													drill hole.

REMARKS –

Date 26 . 10 . 81 Logged by R. J. Taylor

1TO 122070

REGION [illegible] RIVER

PROJECT No. F 340

THE BROKEN HILL PROPRIETARY CO. LTD.

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13
8	4	2	1	1	4	3	1	4	0	2		0

PUNCH IN EVERY CARD

ANALYSIS

14	SAMPLE NUMBER: ALPHA PREFIX (15–17)	NUMERICAL VALUE (18–23)	Suf. (24)	Cu AAS (25–30)	Pb AAS (31–36)	Zn AAS (37–42)	Co AAS (43–48)	Ni AAS (49–54)	Nb XRF (55–60)	ANALYSIS (61–66)	ANALYSIS (67–72)
2	[illegible]	485		<2	5	110	40	80			
2		486		8	5	110	30	55.			
2		487		46	20	90	25	45.			
2		488		42	20	95	25	45.			
2		489		22	15	130	25	40			
2		490		10	10	230	30	40			
2		491		22	15	260	30	40			
2		492		12	5	280	35	50			
2		493		12	5	170	30	40			
2		494		8	5	110	20	25	14		
2											
2											
2											
2											
2											
2											
2											
2											
2											
2											
2											
2											

14	DATE ANALYSED Day (15 16)	Month (17 18)	Year (19 20)	PLACE ANALYSED (21–29)	PPM – M / WT % – W (30)	SAMPLING METHOD (31 32 33)	SAMPLE PREPARATION (34 35)	ANALYSIS SCHEME (36 37)	FRACTION SCHEME (38 39)
1	13	11	81	AMDEL	M				

No. 123070

PROJECT No. F 340

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING HEADER

1	2	3	SHEET No. 4	5	6	7	8	9	10	11	12	13
8	1	1	1	1	4	3	1	5	0	1	1	0

PUNCH IN EVERY CARD

GENERAL LOCATION

14 A

State N.T. | State 15 16

Region FIELD RIVER | Region 17 18

Zone | Zone 19 20 21

SPECIFIC LOCATION OF COLLAR

Either EASTING (22–31): 10050 E | NORTHING (32–41): 9900 N

Or LONGITUDE: DEGREES (22 23 24) | MINS. (25 26) | SECONDS (27 28 29 30 31)

LATITUDE: DEGREES (32 33 34) | MINS. (35 36) | SECONDS (37 38 39 40 41)

REDUCED LEVEL (42–48):

Feet – F / Metres – M | Units 49: M

Grid ANOMALY 14 | GRID 50 51 52

Complete this section if borehole is a continuation of a previous borehole.

Previous borehole no.

Previous header sheet no.

DRILLING DETAILS

BOREHOLE No. (53–60)	SERIAL No. (61–67)	COMPANY (68–77)
DMW 15		BHP

Bits used

Drillers names EVANS DRILLING

14 B

COMMENCED DAY (15 16)	MONTH (17 18)	YEAR (19 20)	COMPLETED DAY (21 22)	MONTH (23 24)	YEAR (25 26)	LOGGED BY (27–39)
6	10	81	6	10	81	R. J. TAYLOR

Type of drilling (40): R

DRILLING UNIT (41–50): MOLE PIONEER

TOTAL DEPTH (51–56)	DEPTH TO H_2O (57–62)	DEPTH OF OXIDATION (63–68)
50.0	NONE	

Orientation at collar: BEARING (69 70 71) | DEP. (72 73): 90

True North – T / Magnetic North – M / Grid North – G | 74: G

Survey readings taken down the borehole

14 C

BEARING (15 16 17)	DEP. (18 19)	DEPTH (20–25)	BEARING (26 27 28)	DEP. (29 30)	DEPTH (31–36)	BEARING (37 38 39)	DEP. (40 41)	DEPTH (42–47)	BEARING (48 49 50)	DEP. (51 52)	DEPTH (53–58)	BEARING (59 60 61)	DEP. (62 63)	DEPTH (64–69)

REGION: FIELD RIVER

PROJECT No.: F.340

BOREHOLE No.: PMW.15

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13	14
8	3	2	1	1	4	3	1	5	0	1	1	9	2

PUNCH IN EVERY CARD

SAMPLE NUMBER ALPHA PREFIX (15 16 17)	NUMERICAL VALUE (18–23)	SUF (24)	FOOTAGE FROM (25–30)	FOOTAGE TO (31–36)	% RECOVERY (37–39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) If Composite (42)	ROCK TYPE (43–46)	MINERALIZATION TYPE Magnetics	AMOUNT	Chemical Tests	SAMPLE DESCRIPTION
DEA	495		0.00	2.00						Few grains			Red brown Sand, clay and gravel
	496		2.00	4.00						1 or 2			White clay, brown clay.
	497		4.00	6.00						1 or 2			White clay, brown clay Red sandstone frags
	498		6.00	8.00						—			″ ″ ″ ″ ″ ″ ″
	499		8.00	10.00									Grey yellow clays, green clay, laterite clay
	500		CONTROL										—
	501		10.00	12.00						−ve			″ green ″, yellow clay, red br. frag
	502		12.00	14.00						−ve			Grey green clay, Fe-rich Siltstone
	503		14.00	16.00						−ve			″ ″ ″, purple siltstone.
	504		16.00	18.00						−ve			Mottled purple grey/green marl.
	505		18.00	20.00									″ ″ ″ ″ ″
	506		20.00	22.00						−ve			″ ″ ″ ″ - moist
	507		22.00	24.00									″ ″ ″ ″ ″
	508		24.00	26.00									″ ″ ″ ″ + laterite frag
	509		26.00	28.00						Slight			Grey brown clays + laterite chips
	510		28.00	30.00	Drill foam								Mud and qtzite chips.
	511		30.00	32.00									Cream mud ″ ″ ″
	512		32.00	34.00									Cream mud and clay fragments
	513		34.00	36.00						−ve			″ ″ ″ ″
	514		36.00	38.00									″ ″ ″ ″
	515		38.00	40.00						−ve			Buff mud, clay frags, laterite frags
	516		40.00	42.00						−ve			″ ″ ″ ″, qtz limonite frags
	517		42.00	44.00									″ ″ ″ ″, laterite frags + chips

REMARKS –

Date 26.10.81 Logged by R. J. Taylor

NO 122071

REGION: FIELD RIVER

PROJECT No. F 340

THE BROKEN HILL PROPRIETARY CO. LTD.

ANALYSIS

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13
8	4	2	1	1	4	3	1	5	0	1		0

PUNCH IN EVERY CARD

14	ALPHA PREFIX (15 16 17)	NUMERICAL VALUE (18–23)	Suf. (24)	Cu (25–27) / AAS (28–30) ANALYSIS	Pb (31–33) / AAS (34–36) ANALYSIS	Zn (37–39) / AAS (40–42) ANALYSIS	Co (43–45) / AAS (46–48) ANALYSIS	Ni (49–51) / ASS (52–54) ANALYSIS	Nb (55–57) / XRF (58–60) ANALYSIS	(61–66) ANALYSIS	(67–72) ANALYSIS
2		495		10	10	42	10	10			
2		496		6	10	42	5	5.			
2		497		4	10	40	15	10			
2		498		4	15	32	5	5			
2		499		4	20	30	5	5			
2		500		34	10	40	30	220			
2		501		6	15	12	10	5.			
2		502		4	20	34	5	5.			
2		503		6	25	44	5	5.			
2		504		4	25	32	5	5.			
2		505		6	15	28	10	10			
2		506		6	15	26	10	10			
2		507		20	30	95	25	15.			
2		508		30	25	100	30	30			
2		509		50	35	75	25	25			
2		510		50	20	70	15	20			
2		511		60	20	80	25	25.			
2		512		34	10	130	30	45.			
2		513		28	10	110	25	40			
2		514		30	10	90	20	35.			
2		515		24	5	65	15	30			
2		516		30	10	55	20	35.			
2		517		32	25	75	20	30			

14	DATE ANALYSED Day (15 16)	Month (17 18)	Year (19 20)	PLACE ANALYSED (21–29)
1	13	11	81	AMDEL

PPM – M / WT % – W (30): M

SAMPLING METHOD (31 32 33):

SAMPLE PREPARATION (34 35):

ANALYSIS SCHEME (36 37):

FRACTION SCHEME (38 39):

No 123071

REGION: FIELD RIVER

PROJECT No.: F.340.

BOREHOLE No.: PMW 15

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

HEADER SHEET No.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
8	3	2	1	1	4	3	1	5	0	2	1	9	2

PUNCH IN EVERY CARD

Alpha Prefix	Numerical Value	From	To	% Recovery	Mineralization Type (Magnetics)	Sample Description
DEA	518	44.00	46.00			Brown mud, brown yellow clay, laterite frags.
	519	46.00	48.00	Poor		" " , " " , laterite fragments
	520	CONTROL				
	521	48.00	50.00			Brown mud, mottled brown clay fragments — few laterite fragments.
						Hole stopped — no water located.

REMARKS –

Date 26.10.81 Logged by R.J. Taylor

REGION FIELD RIVER

PROJECT No. E 340

THE BROKEN HILL PROPRIETARY CO. LTD.

1	2	3		HEADER SHEET No. 4	5	6	7	8	9		10	11	12	13
8	4	2		1	1	4	3	1	5		0	2		0

PUNCH IN EVERY CARD

ANALYSIS

14	SAMPLE NUMBER: ALPHA PREFIX (15–17)	NUMERICAL VALUE (18–23)	Suf. (24)	Cu – AAS (25–30)	Pb – AAS (31–36)	Zn – AAS (37–42)	Co – AAS (43–48)	Ni – AAS (49–54)	Nb – XRF. (55–60)	ANALYSIS (61–66)	ANALYSIS (67–72)
2		518		24	10	60	30	45.			
2		519		24	10	65.	30	55.			
2		520		34	5	28	35	200			
2		521		20	10	65	35	65.	20		
2											
2											
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2											

14	DATE ANALYSED Day (15–16)	Month (17–18)	Year (19–20)	PLACE ANALYSED (21–29)	PPM – M / WT % – W (30)	SAMPLING METHOD (31–33)	SAMPLE PREPARATION (34–35)	ANALYSIS SCHEME (36–37)	FRACTION SCHEME (38–39)
1	13	11	81	AMDEL	m				

Form No. 47?

№ 123072

PROJECT No. F.340

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING HEADER

1	2	3	SHEET No. 4	5	6	7	8	9	10	11	12	13
8	1	1	1	1	4	3	1	6	0	1	1	0

PUNCH IN EVERY CARD

GENERAL LOCATION

14 A

State NT (State 15 16)

Region FIELD RIVER (Region 17 18)

Zone (Zone 19 20 21)

SPECIFIC LOCATION OF COLLAR

Either EASTING (22–31): 10100 E NORTHING (32–41): 9800 N

Or LONGITUDE: DEGREES (22 23 24), MINS. (25 26), SECONDS (27 28 29 30 31); LATITUDE: DEGREES (32 33 34), MINS. (35 36), SECONDS (37 38 39 40 41)

REDUCED LEVEL (42–48):

Feet – F
Metres – M
Units (49): M

Grid ANOMALY 12 (GRID 50 51 52)

Complete this section if borehole is a continuation of a previous borehole.

Previous borehole no.

Previous header sheet no.

DRILLING DETAILS

BOREHOLE No. (53–60)	SERIAL No. (61–67)	COMPANY (68–77)
PMW16		BHP

Bits used

Drillers names EVANS DRILLING.

14 B

COMMENCED DAY (15 16)	MONTH (17 18)	YEAR (19 20)	COMPLETED DAY (21 22)	MONTH (23 24)	YEAR (25 26)	LOGGED BY (27–39)
6	10	81	6	10	81	R.J. TAYLOR

Type of drilling (40): R

DRILLING UNIT (41–50): MOLE PIONEER

TOTAL DEPTH (51–56)	DEPTH TO H_2O (57–62)	DEPTH OF OXIDATION (63–68)
46.00	NONE.	

Orientation at collar: BEARING (69 70 71): ; DEP. (72 73): 90

True North – T
Magnetic North – M
Grid North – G
(74): G

Survey readings taken down the borehole

14 C

BEARING 15 16 17	DEP. 18 19	DEPTH 20–25	BEARING 26 27 28	DEP. 29 30	DEPTH 31–36	BEARING 37 38 39	DEP. 40 41	DEPTH 42–47	BEARING 48 49 50	DEP. 51 52	DEPTH 53–58	BEARING 59 60 61	DEP. 62 63	DEPTH 64–69

REGION FIELD RIVER

PROJECT No. F.340

BOREHOLE No. PMW.16

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13	14
8	3	2	1	1	4	3	1	6	0	1	1	9	2

PUNCH IN EVERY CARD

SAMPLE NUMBER ALPHA PREFIX (15 16 17)	NUMERICAL VALUE (18–23)	SUF (24)	FOOTAGE FROM (25–30)	FOOTAGE TO (31–36)	% RECOVERY (37 38 39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) If Composite (42)	ROCK TYPE (43 44 45 46)	MINERALIZATION TYPE Magnetics	AMOUNT	Chemical Tests	SAMPLE DESCRIPTION
DEA	522		0.00	2.00						Few grains			Red brown Sand.
	523		2.00	4.00						" "			Red brown Sand & clay, calcrete, laterite
	524		4.00	6.00						" "			Red brown Sand & clay. Ferricrete
	525		6.00	8.00						Plenty			" " " " "
	526		8.00	10.00						Few			Red brown sand grit: dk red siltstone
	527		10.00	12.00						Few.			" " " " " " "
	528		12.00	14.00						Few.			" " " " " " "
	529		14.00	16.00						Few.			Pale yellow clay: red brown Siltstone.
	530		16.00	18.00						Few.			" " " " " "
	531		18.00	20.00						-ve			Pale grey green stiff clay
	532		20.00	22.00						-ve			" " " " " /Iron stain
	533		22.00	24.00						-ve			Green Sandy clay with red spots.
	534		24.00	26.00						-ve			Varied green Shale and Silts + mica
	535		26.00	28.00						-ve			Sage green micaceous siltstone frags.
	536		28.00	30.00						-ve			" " " " "
	537		30.00	32.00						+			Brown clay, qtz qtzite chips - yellow.
	538		32.00	34.00						-ve			Green clay fragments, qtz gravel, Fe-rich d.
	539		34.00	36.00						-ve			Khaki green silty clay, qtz chips.
	540		CONTROL										
	541		36.00	38.00						-ve			Green Silty clay powder with qtz chips
	542		38.00	40.00						-ve			" " " " " " "
	543		40.00	42.00						-ve			Grey green powder Siltstone, yellow clay, qtz chips
	544		42.00	44.00						-ve			" " " " " "

REMARKS —

Date 26.10.81 Logged by R.J. Taylor

SHEET Nº 123073

REGION: FIELD RIVER

PROJECT No.: E 340

THE BROKEN HILL PROPRIETARY CO. LTD.

ANALYSIS

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13
8	4	2	/	/	4	3	/	6	0	/		0

PUNCH IN EVERY CARD

14	SAMPLE NUMBER: ALPHA PREFIX (15–17)	NUMERICAL VALUE (18–23)	Suf (24)	Cu (AAS) (25–30)	Pb (AAS) (31–36)	Zn (AAS) (37–42)	Co (AAS) (43–48)	Ni (AAS) (49–54)	Nb (XRF) (55–60)	ANALYSIS (61–66)	ANALYSIS (67–72)
2	[illegible]	522		6	<5.	18	10	5			
2		523		10	5	22	10	5			
2		524		24	15	30	10	25.			
2		525		24	20	50	20	30			
2		526		26	15	55	15	25.			
2		527		30	20	55	30	25.			
2		528		30	15.	50	15	20			
2		529		36	10	65	10	20			
2		530		20	5	40	10	5.			
2		531		12	5	20	10	5.			
2		532		12	10	20	5	5			
2		533		18	<5	46	10	5			
2		534		14	10	65	15	10			
2		535		16	10	170	35	35			
2		536		20	15	230	40	40			
2		537		18	20	150	70	35.			
2		538		20	15	200	25	20.			
2		539		22	15	200	25	20			
2		540		30	5	30	35	210			
2		541		20	20	170	20	20			
2		542		30	20	140	25	20			
2		543		26	15	130	15	15			
2		544		24	20	120	25	20.			

14	DATE ANALYSED Day (15–16)	Month (17–18)	Year (19–20)	PLACE ANALYSED (21–29)
1	13	11	81	AMDEL.

PPM – M / WT % – W [30]: M

SAMPLING METHOD (31–33): 1 2 3

SAMPLE PREPARATION (34–35): 1 2

ANALYSIS SCHEME (36–37)

FRACTION SCHEME (38–39)

No 123072

REGION FIELD RIVER

PROJECT No. F. 340

BOREHOLE No. P.M.W. 16

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

HEADER SHEET No. 1 2 3	4 5 6 7 8 9	10 11 12 13 14
8 3 2	1 1 4 3 1 6	0 2 1 9 2

PUNCH IN EVERY CARD

SAMPLE NUMBER: ALPHA PREFIX (15-17)	NUMERICAL VALUE (18-23)	SUF (24)	FOOTAGE: FROM (25-30)	TO (31-36)	% RECOVERY (37-39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) If Composite (42)	ROCK TYPE (43-46)	MINERALIZATION: TYPE Magnetics	AMOUNT	Chemical Tests	SAMPLE DESCRIPTION
DEA	545		44.00	46.00						-ve			Grey green powder, Qtz chips, clay/silts Hole stopped.

REMARKS –

Date 26. 10. 81 Logged by R. J. Taylor

REGION: Mt D King

PROJECT No. E 340

THE BROKEN HILL PROPRIETARY CO. LTD.

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13
8	4	2	1	1	4	3	1	C	C	2		0

PUNCH IN EVERY CARD

ANALYSIS

14	SAMPLE NUMBER: ALPHA PREFIX (15–17)	NUMERICAL VALUE (18–23)	Suf. (24)	ANALYSIS 25–27: Cu	Method of Analysis 28–30: AAS.	ANALYSIS 31–33: Pb	Method of Analysis 34–36: AAS	ANALYSIS 37–39: Zn	Method of Analysis 40–42: AAS.	ANALYSIS 43–45: Co	Method of Analysis 46–48: AAS	ANALYSIS 49–51: Ni	Method of Analysis 52–54: AAS	ANALYSIS 55–57: Nb	Method of Analysis 58–60: XRF.	ANALYSIS 61–63	Method of Analysis 64–66	ANALYSIS 67–69	Method of Analysis 70–72
0																			
2		545		20.		15		140		25		20.		16.					
2																			
2																			
2																			
2																			
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2																			

14	DATE ANALYSED Day (15 16)	Month (17 18)	Year (19 20)	PLACE ANALYSED (21–29)	PPM – M / WT % – W (30)	SAMPLING METHOD 1 2 3 (31 32 33)	SAMPLE PREPARATION 1 2 (34 35)	ANALYSIS SCHEME (36 37)	FRACTION SCHEME (38 39)
1	13	11	81	AMDEL	M				

No 123074

PROJECT No. F.340.

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING HEADER

1	2	3	SHEET No. 4	5	6	7	8	9	10	11	12	13
8	1	1	1	1	4	3	1	7	0	1	1	0

PUNCH IN EVERY CARD

GENERAL LOCATION

14 A

State NT | State 15 16

Region FIELD RIVER | Region 17 18

Zone | Zone 19 20 21

SPECIFIC LOCATION OF COLLAR

Either EASTING (22–31): 10000 E | NORTHING (32–41): 9650 N

Or LONGITUDE: DEGREES (22 23 24) | MINS. (25 26) | SECONDS (27 28 29 30 31)

LATITUDE: DEGREES (32 33 34) | MINS. (35 36) | SECONDS (37 38 39 40 41)

REDUCED LEVEL (42–48):

Feet – F, Metres – M | Units 49: M

Grid ANOMALY 13 | GRID 50 51 52

Complete this section if borehole is a continuation of a previous borehole.

Previous borehole no.

Previous header sheet no.

DRILLING DETAILS

BOREHOLE No. (53–60): PMW. 17 | SERIAL No. (61–67): | COMPANY (68–77): BHP.

Bits used

Drillers names EVANS DRILLING.

14 B

COMMENCED			COMPLETED			LOGGED BY
DAY (15 16)	MONTH (17 18)	YEAR (19 20)	DAY (21 22)	MONTH (23 24)	YEAR (25 26)	27–39
7	10	81	7	10	81	R.J. TAYLOR

Type of drilling (40): R

DRILLING UNIT (41–50): HOLE PIONEER

TOTAL DEPTH (51–56): 50.00

DEPTH TO H_2O (57–62): NONE

DEPTH OF OXIDATION (63–68):

Orientation at collar: BEARING (69 70 71): | DEP. (72 73): 90

True North – T, Magnetic North – M, Grid North – G | 74: G

Survey readings taken down the borehole

14 C

BEARING	DEP.	DEPTH	BEARING	DEP.	DEPTH	BEARING	DEP.	DEPTH	BEARING	DEP.	DEPTH	BEARING	DEP.	DEPTH
15 16 17	18 19	20–25	26 27 28	29 30	31–36	37 38 39	40 41	42–47	48 49 50	51 52	53–58	59 60 61	62 63	64–69

REGION FIELD RIVER
PROJECT No. F.340
BOREHOLE No. PMW.17

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

HEADER SHEET No.		
1 2 3	4 5 6 7 8 9	10 11 12 13 14
8 3 2	1 1 4 3 1 7	0 1 1 9 2

PUNCH IN EVERY CARD

	SAMPLE NUMBER: ALPHA PREFIX (15-17)	NUMERICAL VALUE (18-23)	SUF (24)	FOOTAGE: FROM (25-30)	FOOTAGE: TO (31-36)	% RECOVERY (37-39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) TT Composite (42)	ROCK TYPE (43-46)	MINERALIZATION: TYPE Magnetics	MINERALIZATION: AMOUNT	Chemical Tests	SAMPLE DESCRIPTION
	DEA	546		0.00	2.00						Few grains			Red brown Sand - yellow clay
		547		2.00	4.00						" "			Mottled clay
		548		4.00	6.00						" "			White grey Sandy clay - yellow clay
		549		6.00	8.00						-ve			Yellow sandy clay - red br sandstone
		550		8.00	10.00						Few grains			Yellow br sandstone → red grey metallic? [illegible]
H		551		10.00	12.00	Hammer					" "			Red br sand and sandstone.
		562		12.00	14.00						-ve			Mottled yellow frags. + red br sandstone
		553		14.00	16.00	Hammer					-ve			Grey white clay
		554		16.00	18.00						-ve			Stiff red purple clay.
		555		18.00	20.00						-ve			Red purple and yellow clay.
		556		20.00	22.00						-ve			Yellow brown clay with laterite frags.
		557		22.00	24.00						-ve			Yellow and grey clay
		558		24.00	26.00						-ve			Dk grey green stiff clay - moist
		559		26.00	28.00						-ve			" " " " " "
		560		CONTROL										
		561		28.00	30.00						-ve			" " " " " "
		562		30.00	32.00						-ve			" " " " " "
		563		32.00	34.00						-ve			" " " " " ? laterite
		564		34.00	36.00						-ve			" " " " "
		565		36.00	38.00						-ve			" " " " "
		566		38.00	40.00						-ve			" " " " "
		567		40.00	42.00						-ve			" " " " " Chips of quartzite
		568		42.00	44.00	Drill Foam.					-ve			Stiff moist grey green clay

REMARKS -

Date 26.10.81 Logged by R. J. Taylor

TO 122075

REGION: FIELD RIVER
PROJECT No. E 340

THE BROKEN HILL PROPRIETARY CO. LTD.

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13
8	4	2	1	1	4	3	1	7	0	1		0

PUNCH IN EVERY CARD

ANALYSIS

14	SAMPLE NUMBER: ALPHA PREFIX (15–17)	NUMERICAL VALUE (18–23)	Suf. (24)	Cu / AAS ANALYSIS (25–30)	Pb / AAS ANALYSIS (31–36)	Zn / AAS ANALYSIS (37–42)	Co / AAS ANALYSIS (43–48)	Ni / AAS ANALYSIS (49–54)	Nb / XRF ANALYSIS (55–60)	ANALYSIS (61–66)	ANALYSIS (67–72)
2	[illegible]	546		6	5	18	10	10.			
2		547		8	10	18	20	10			
2		548		6	5	22	10	10.			
2		549		6	5	20	5	5.			
2		550		8	5	14	10	<5.			
2		551		12.	15.	12	10	5.			
2		552		14	15	34	10	5.			
2		553		18	20	40	10	10.			
2		554		10	15	42	10	15.			
2		555		14	15	70	20	20			
2		556		28	10	90	15	25.			
2		557		48	15	95	60	65.			
2		558		32	10	290	190	170			
2		559		8	5	170	110	150.			
2		560		32	5	36	35	210.			
2		561		6	5	150	110	130			
2		562		10	5	120	85	140			
2		563		6	5	95	70	140.			
2		564		6	10	85	55	100			
2		565		6	10	80	55	110			
2		566		8	5	85	60	95.			
2		567		8	10	75	60	100.			
2		[illegible]		8	5	75	60	95.			

14	DATE ANALYSED Day (15–16)	Month (17–18)	Year (19–20)	PLACE ANALYSED (21–29)	PPM – M / WT % – W (30)	SAMPLING METHOD (31–33)	SAMPLE PREPARATION (34–35)	ANALYSIS SCHEME (36–37)	FRACTION SCHEME (38–39)
1	13	11	81	AMDEL	M				

No 122075

REGION: FIELD RIVER

PROJECT No.: F.340

BOREHOLE No.: PMW 17

THE BROKEN HILL PROPRIETARY CO. LTD.

DRILLING SAMPLE DESCRIPTION

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13	14
8	3	2	1	1	4	3	1	7	0	2	1	9	2

PUNCH IN EVERY CARD

SAMPLE NUMBER: ALPHA PREFIX (15-17)	NUMERICAL VALUE (18-23)	SUF (24)	FOOTAGE FROM (25-30)	FOOTAGE TO (31-36)	% RECOVERY (37-39)	Inform. Avail. (40)	Duplicate Samples (41)	(C) If Composite (42)	ROCK TYPE (43-46)	MINERALIZATION TYPE Magnetics	MINERALIZATION AMOUNT	Chemical Tests	SAMPLE DESCRIPTION
DEA	569		44.00	46.00						-ve			Grey green mud
	570		46.00	48.00									" " " fragments of qtz
	571		48.00	50.00									" " " " " "
													Hole terminated.

REMARKS –

Date 26.10.81 Logged by R.J. Taylor.

REGION [illegible] RIVER

PROJECT No. F 340

THE BROKEN HILL PROPRIETARY CO. LTD.

1	2	3	HEADER SHEET No. 4	5	6	7	8	9	10	11	12	13
8	4	2	1	1	1	3	1	7	0	2		0

PUNCH IN EVERY CARD

ANALYSIS

14	SAMPLE NUMBER: ALPHA PREFIX (15–17)	NUMERICAL VALUE (18–23)	Suf. (24)	ANALYSIS 25–30	ANALYSIS 31–36	ANALYSIS 37–42	ANALYSIS 43–48	ANALYSIS 49–54	ANALYSIS 55–60	ANALYSIS 61–66	ANALYSIS 67–72
0				Cu / Method of Analysis: AAS	Pb / Method of Analysis: AAS	Zn / Method of Analysis: AAS	Co / Method of Analysis: AAS	Ni / Method of Analysis: AAS	Nb / Method of Analysis: XRF.	Method of Analysis:	Method of Analysis:
2		569		12	5	80	60	100			
2		570		36	15	90	45	85.			
2		571		30	10	75	40	70.	12		
2		[illegible]									
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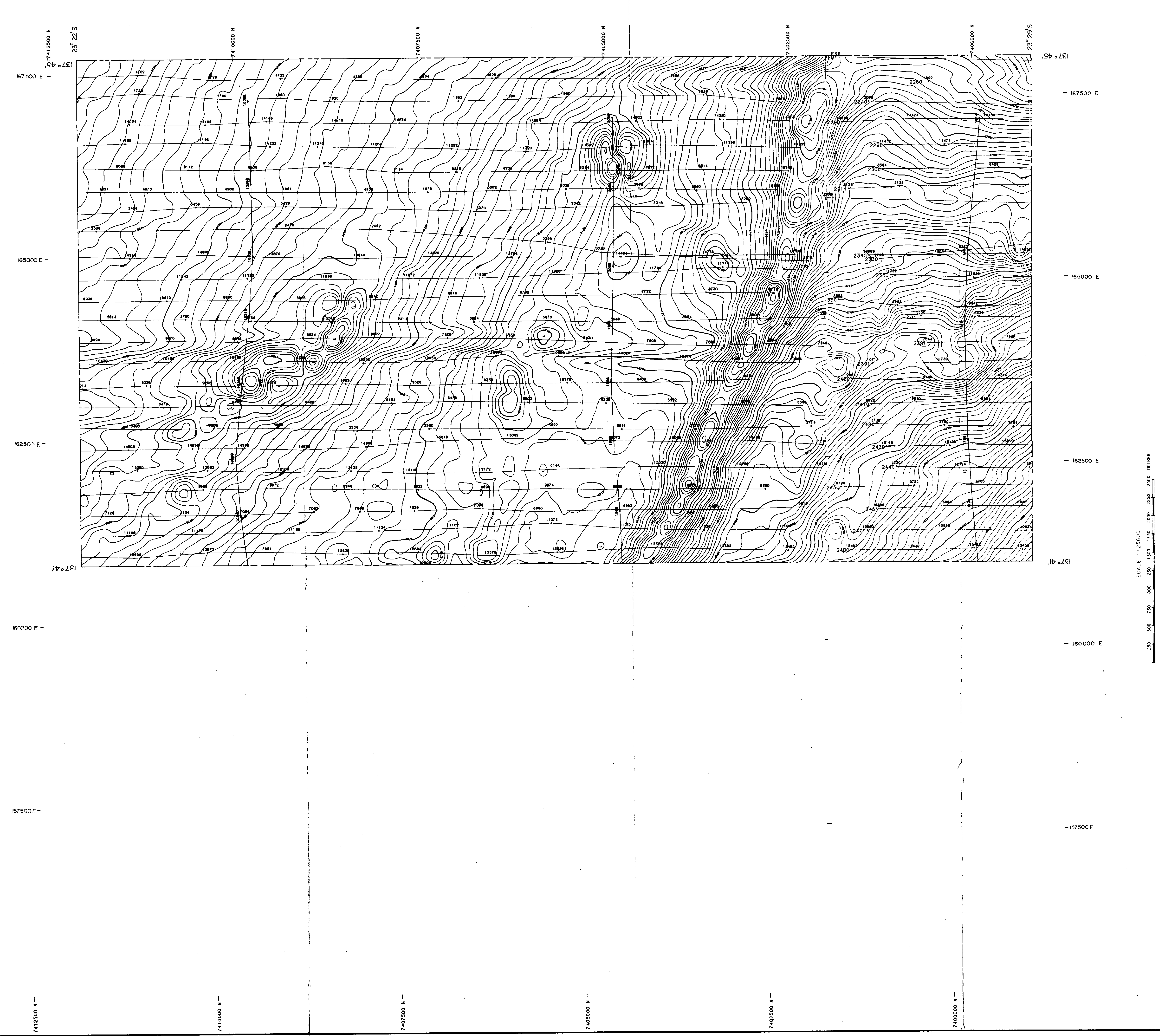
14	DATE ANALYSED Day (15–16)	Month (17–18)	Year (19–20)	PLACE ANALYSED (21–29)	PPM – M / WT % – W (30)	SAMPLING METHOD (31–33)	SAMPLE PREPARATION (34–35)	ANALYSIS SCHEME (36–37)	FRACTION SCHEME (38–39)
1	13	11	81	AmDEL	M				

No 122076

FIG. 3



DETAILS OF PROCESSING

PROCESSED BY : BHP EXPLORATION : CAMBERWELL
MESH : (100,100)
SCAN : 700

DETAILS OF SURVEY

FLOWN BY : GEDEX
DATE : OCT 1980
250,000 SHEET : HAY RIVER
AMG ZONE : 53

LINE SPACING : 300
SURVEY HEIGHT : 75
MAGNETOMETER : SONOTEK

COMPTON SCATTERING RATIO ALPHA : .50
COMPTON SCATTERING RATIO BETA : .50
COMPTON SCATTERING RATIO GAMMA : .50

PRELIMINARY COPY

THE BROKEN HILL PROPRIETARY CO. LTD.
EXPLORATION DEPT

EL 3164 FIELD RIVER, N.T.

TOTAL MAGNETIC INTENSITY CONTOURS

DRAWN: DGP	DATE: 9-2-82	CENTRE: Adelaide
TRACED: IL	PROJECT NO: 8-F340-3	DRAWING NO: A1-430
CHECKED:		