District Geologist, Smithers	Off Confidential: 92.03.27
ASSESSMENT REPORT 21180 MINING DIVISION: L	iard
PROPERTY: Ball Creek LOCATION: LAT 57 16 00 LONG 130 25 00 UTM 09 6347747 414557	
NTS 104G08W CLAIM(S): Tara,Rog OPERATOR(S): Placer Dome AUTHOR(S): Baril, J. REPORT YEAR: 1990, 114 Pages COMMODITIES	
SEARCHED FOR: Copper,Gold KEYWORDS: Triassic,Volcanics,Dykes,Monzonites Gossans,Malachite,Chalcopyrite,Moly Magnetite,Quartz	,Alteration,Faults,Fractures bdenite,Galena,Sphalerite
WORK	
DONE: Drilling,Geochemical DIAD 330.0 m 4 hole(s);NQ	
Map(s) - 8; Scale(s) - 1:5000,1:500	
SAMP 147 sample(s) ;AU,CU	
RELATED	
REPORTS: 04651,19316	
MINFILE: 104G 018,104G 042	

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Ball Creek Project

Liard Mining Division

N.T.S. 104G/8W

Latitude 57º 16' North

Longitude 130^o 25' West

GEOLOGICAL BRANCH ASSESSMENT REPORT



Owner of claims: Cher Operator: Plac

Chevron Minerals Ltd. Placer Dome Inc.

Author: John Baril Date: December, 1990

SUMMARY

The Ball Creek property has been explored on and off since 1929. Between 1972 and 1975, Great Plains Development Company of Canada Ltd. performed an extensive exploration and diamond drilling program. The property is presently owned by Chevron Minerals Ltd. and is being optioned to Placer Dome Exploration Ltd.

During the summer of 1989, Placer Dome conducted an intensive exploration program which included the following: soil and rock sampling, geophysics (magnetometer, VLF-EM and induced polarization surveys) and geological mapping. The drill core from 1973 and 1975 was also re-logged and re-sampled. The geological mapping, soil sampling, magnetometer and I.P. surveys all defined an area of mineralization which appears to be a porphyry Cu-Au deposit. The geology and alteration patterns, plus the geochemical metal zonation, all fit the general Lowell and Guilbert model for porphyry Cu deposits.

"All previous drilling was performed in the central potassic alteration zone except for three holes, which were drilled on the boundary between the potassic and phyllic zones. Much of the drill core was anomalous in gold, with several drill holes intersecting zones averaging greater than 0.1 grams/tonne gold. A 137 metre section of drill hole 73-2 averaged 0.37 grams/tonne gold. The potassic alteration zone is not the optimum zonation for potential gold concentration in a porphyry system. Better gold values are commonly enhanced either on the inner flanks of the phyllic zone or in the propylitic zone. The high gold values for core in the potassic zone are a favourable sign that the other parts of the porphyry deposit could carry economic levels of gold mineralization." (J. Kowalchuk and R. Turna, 1990).

The alteration-mineralization relationships described in the above paragraph, were the basis for planning the 1990 diamond drilling program. In August and September of 1990, diamond drilling was performed on select targets in the phyllic and propylitic alteration zones. These drill holes failed to intersect any significant values in copper or gold. There is, however, still a large area of the deposit which has not been tested by diamond drilling.

Additional drilling is recommended to test in greater detail, the area between the potassic alteration core and the phyllic alteration zone. This area has the potential to contain a very large tonnage of economic mineralization.

Additional geological mapping and sampling are recommended in the Cliff Zone. This area returned some very promising Au, Ag, Cu, Pb, Zn and As signatures from the 1989 soil sampling survey.

Geological mapping, rock sampling and soil sampling are recommended for the area between the Trachyte Knob and the Ball Creek valley.

Geological mapping, rock and soil sampling are also suggested for the Goat Zone.

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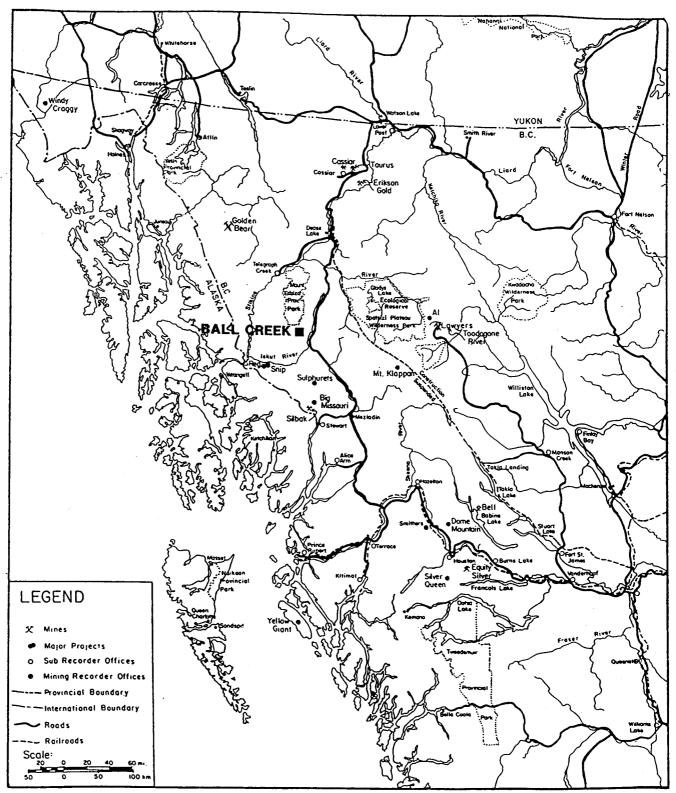
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FIGURE 1

BALL CREEK

PROPERTY LOCATION MAP

1.0 INTRODUCTION

The following introduction is taken from the Geological, Geochemical and Geophysical Report on the Ball Creek Project, March 30, 1990 (J. Kowalchuk and R. Turna, 1990).

1.1 Location and Access

The Ball Creek property lies along the western edge of the Bowser Basin about 150 km north of Stewart B.C. and 140 km south of Dease Lake. The claims are plotted on NTS map sheet 104G/8W, at coordinates 57⁰ 16' north latitude and 130⁰ 25' west longitude (Figure 1).

Access to the property is by helicopter from Tatogga Lake, 55 km to the northeast. Helicopters based at Dease Lake and helicopters stationed in the Iskut and Sulphurets camps, 80 km to the southwest and south, can also be used for access. The exploration camp can be mobilized and demobilized by helicopter from the Burrage Creek airstrip on Highway No. 37, 10 km to the east.

Road access from the Stewart Cassiar Highway, 10 kilometres to the east would be easy to construct along the Ball Creek Valley. A bridge would be required to cross the Iskut River.

1.2 Topography and Vegetation

The property lies along the western edge of the Intermontane Belt. The topography is rugged with elevations ranging from 700 metres to 1990 metres. Some areas are extremely rugged, with cliffs of 200 to 500 metres common. The Camp Zone and most of the areas above treeline (about 1300 metre elevation) are quite gentle and are easily traversed by foot.

The lower parts of the property are covered with fir and spruce. Timber is generally small and of no economic importance.

1.3 Property Description

The property consists of mineral claims with the names BARE, BR,ME, MENT, MOM, ROG, TARA, DON. There are a total of 92 full units plus one fractional unit. The claims encompass a land area of 3250 hectares (8031 acres). Refer to Table No. 1 for a complete list of the claims. The claim locations are plotted on Figure 2.

Table 1: Claim Status

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BALL CREEK PROPERTY Liard M.D.

Claim	Record #	Units	Record date	Expiry date	Ovner	File #
1 BARE 1	69895	1	July 18 1973	July 18 1995	CML	32323
1 BARE 2	69895	1	July 18 1973	July 18 1995	CML	32324
i BR 1	69897	1	July 18 1973	July 18 1995	CML.	32334
1 BR 2	69898	1	July 18 1973	July 18 1995	CHL	32335
1 8R 3	69899	1	July 18 1973	July 18 1995	CML	32336
I HE I	46259	i	Aug 19 1970	Aug 19 1995	ÇML	30048
1 ME 2	46260	1	Aug 19 1970	Aug 19 1995	CHL	30049
1 ME 3	46261	í	Aug 19 1970	Aug 19 1995	CHL	30050
1 ME 4	46262	1	Aug 19 1970	Aug 19 1995	CHL	30051
1 ME 5	46263	1	Aug 19 1970	Aug 19 1995	CHL	30052
1 HE 6	46264	1	Aug 19 1970	Aug 19 1995	CNL	30053
1 HE 7	46265	1	Aug 19 1970	Aug 19 1995	CHL	30054
1 ME 8	46266	1	Aug 19 1970	Aug 19 1995	CHL	30055
1 ME 9	46257	1	Aug 19 1970	Aug 19 1995	CHL	30056
1 ME 10	46268	1	Aug 19 1970	Aug 19 1995	CML	30057
1 ME 11	46269	i	Aug 19 1970	Aug 19 1995	CHL	30058
1 ME 12	46270	1	Aug 19 1970	Aug 19 1995	CHL	30059
1 ME 13	46271	1	Aug 19 1970	Aug 19 1995	CNL	30060
1 ME 14	46272	1	Aug 19 1970	Aug 19 1995	CML	30061
1 HE 15	46273	1	Aug 19 1970	Aug 19 1995	CML	30062
1 ME 16	46274	1	Aug 19 1970	Aug 19 1995	CHL	30063
1 HE 17	46275	1	Aug 19 1970	Aug 19 1995	CML	30064
1 NE 18	46276	1	Aug 19 1970	Aug 19 1995	CML	30065
1 MENT 7FR	55085	i	Aug 18 1971	Aug 18 1995	CHL	30897
1 HOH 4	68388	1	Sept 21 1971	Sept 21 1995	CML	32315
1 NON S	68389	1	Sept 21 1971	Sept 21 1995	CHL	32316
1 NOM 6	68390	1	Sept 21 1971	Sept 21 1995	CHL	32317
1 NON 7	68391	1	Sept 21 1971	Sept 21 1995	CML	32318
I NOM 8	68392	1	Sept 21 1971	Sept 21 1995	CHL	32319
1 NON 9	68393	1	Sept 21 1971	Sept 21 1995	CHL	32320
1 NON 10	68394	t	Sept 21 1971	Sept 21 1995	CHL	32321
i HON 11	68395	1	Sept 21 1971	Sept 21 1995	CHL	32322
1 ROG 1	48091	t	Aug 25 1970	Aug 25 1995	CML.	30065
1 ROG 2	48092	1	Aug 25 1970	Aug 25 1995	CHL	30067
1 ROG 3	48093	1	Aug 25 1970	Aug 25 1995	CHIL	30068
1 ROG 4	48094	1	Aug 25 1970	Aug 25 1995	CHL	30069
1 ROB 5	48095	1	Aug 25 1970	Aug 25 1995	CML.	30070
1 ROS 6	48096	1	Aug 25 1970	Aug 25 1995	CHL	30071
1 ROG 7	48097	1	Aug 25 1970	Aug 25 1995	CML	30072
1 ROG 8	48098	1	Aug 25 1970	Aug 25 1995	ENL	30073
1 ROG 9	48099	1	Aug 25 1970	Aug 25 1995	CKL	30074
1 ROG 10	48100	1	Aug 25 1970	Aug 25 1995	CHL.	30075
1 ROG 11	48101	1	Aug 25 1970	Aug 25 1995	CML.	30076
1 R08 12	48102	1	Aug 25 1970	Aug 25 1995	CHL	30077
i ROG 13	48103	ł	Aug 25 1970	Aug 25 1995	CHI.	30078

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Claim Status

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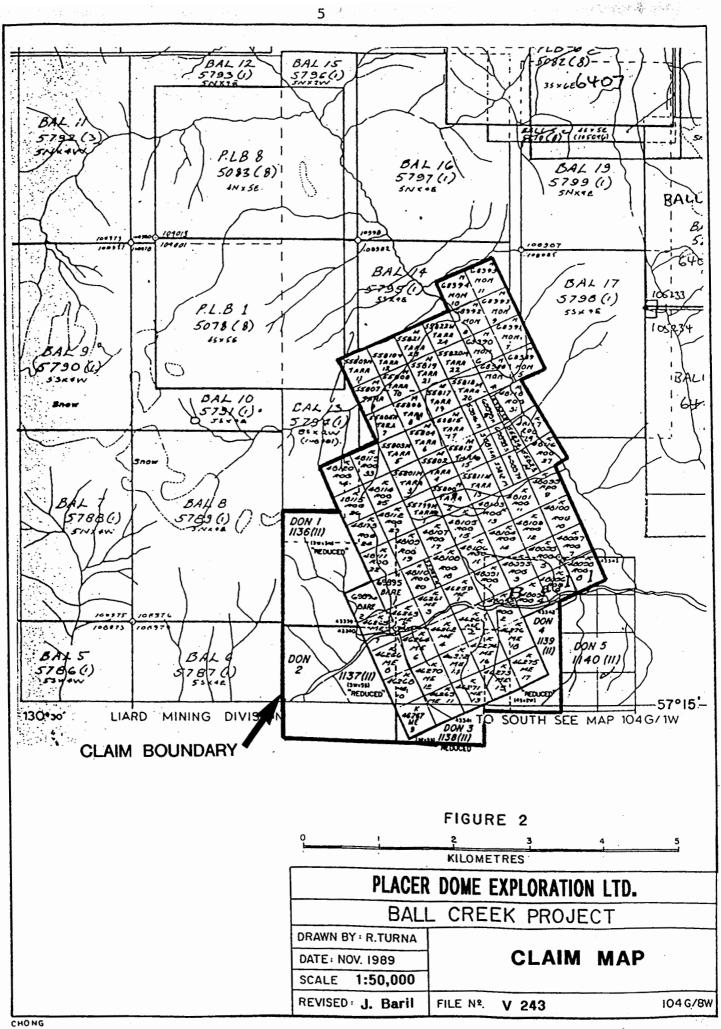
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1 ROG 14	48104	1	Aug 25 1970	Aug 25 1995	CML	30079
1 ROG 15	48105	1	Aug 25 1970	Aug 25 1995	CHIL	30080
1 ROG 16	48106	1	Aug 25 1970	Aug 25 1995	CML	30081
1 ROG 17	48107	1	Aug 25 1970	Aug 25 1995	CHIL	30082
1 ROG 18	48108	i	Aug 25 1970	Aug 25 1995	CML	30083
1 ROG 19	48109	1	Aug 25 1970	Aug 25 1995	CNL	30084
1 RD6 20	48110	1	Aug 25 1970	Aug 25 1995	CML	30085
1 R06 22	48111	1	Aug 25 1970	Aug 25 1995	CML	30086
1 ROG 23	48112	1	Aug 25 1970	Aug 25 1995	CHL	30087
1 ROG 24	48113	1	Aug 25 1970	Aug 25 1995	CHL	30088
1 R06 25	48114	1	Aug 25 1970	Aug 25 1995	CHL	30089
1 ROG 26	48115	1	Aug 25 1970	Aug 25 1995	CML	30090
1 R06 27	48116	1	Aug 25 1970	Aug 25 1995	CHL	30091
1 ROG 29	48117	1	Aug 25 1970	Aug 25 1995	CML	30092
1 ROG 31	48118	i	Aug 25 1970	Aug 25 1995	CML	30093
1 806 33	48119	1	Aug 25 1970	Aug 25 1995	CML.	30094
1 RD6 34	48120	1	Aug 25 1970	Aug 25 1995	CHL	30095
	5 5360		0	A 1 00 156F		04044
I TARA I	55799	1	Sept 28 1971		CHL	30812
1 TARA 2	55800	1	Sept 28 1971	Sept 28 1995	CML	30813
1 TARA 3	55801	1	Sept 28 1971	Sept 28 1995	CHL	30814
1 TARA 4	55802	1	Sept 28 1971	Sept 28 1995	CML	30815
1 TARA 5	55803	1	Sept 28 1971	Sept 28 1995	CML	30816
1 TARA 6	55804	1	Sept 28 1971	Sept 28 1995	CML	30817
L TARA 7	55805	1	Sept 28 1971	Sept 28 1995	CML	30818
1 TARA B	55806	1	Sept 28 1971	Sept 28 1995	CHL	30819
1 TARA 9	55807	1	Sept 28 1971	Sept 28 1995	CHL	30820
1 TARA 10	55808	1	Sept 28 1971	Sept 28 1995	CML.	30821
1 TARA 11	55809	1	Sept 28 1971	Sept 28 1995	CHL	30822
1 TARA 12	55810	1	Sept 28 1971	Sept 28 1995	CHL	30823
1 TARA 13	55811	1	Sept 28 1971	Sept 28 1995	CML	30824
1 TARA 14	55812	1	Sept 28 1971	Sept 28 1995	CHL	30825
I TARA 15	55813	ļ	Sept 28 1971	Sept 28 1995	CML	30826
1 TARA 16	55814	1	Sept 28 1971	,	CML.	30827
1 TARA 17	55815	1	Sept 28 1971		CHI.	30828
1 TARA 18	55816	1	Sept 28 1971	Sept 28 1995	CML	30829
1 TARA 19	55817	1	Sept 28 1971	Sept 28 1995	CHL	30830
I TARA 20	55818	1	Sept 28 1971	Sept 28 1995	CHL	30831
1 TARA 21	55819	1	Sept 28 1971	Sept 28 1995	CHL	30832
1 TARA 22	55820	1	Sept 28 1971	•	CML	30833
1 TARA 23	55821	1	Sept 28 1971		CNL	30834
1 TARA 24	55822	1	Sept 28 1971		CHL	30835
1 TARA 25	55823	1	Sept 28 1971		CHL	30836
1 TARA 26	55824	1	Sept 28 1971		CNL	30837
1 TARA 27	55825	1	Sept 28 1971	Sept 28 1995	CHL	30838
1 DON 1	1136	9	Nov 9 1979	Nov 9 1995	CML	36286
1 DON 2	1137	15	Nov 9 1979	Nov 9 1995	CHL	36286
1 DON 3	1138	9	Nov 9 1979	Nov 9 1995	CHL	36286
I DON 4	1139	8	Nov 9 1979	Nov 9 1995	CHL	36286
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TOTAL ACRES= 8



1.4 History

The historical descriptions from 1929 to 1989 are taken from the Geological, Geochemical and Geophysical Report on the Ball Creek Project, March 30, 1990 (J. Kowalchuk and R. Turna, 1990).

1929: Five claims were staked for A.B. Trites.

1963: The Mary claim group was staked for Southwest Potash Corp.

Six shallow, bore holes were drilled totalling 60 metres (199 feet). Geological mapping and soil sampling were also performed. The work was concentrated on a molybdenite showing in the Cliff Zone.

1966: Stikine Exploration restaked the area but did no work.

1970: The Greg claim group was staked by Newmont Exploration of Canada Ltd. Geological mapping, geochemistry and ground magnetometer work was performed.

Great Plains Development Company of Canada Ltd. and Chevron Standard Limited staked the ME and ROG claims.

1971: Great Plains staked the TARA claims over the lapsed Greg claims of Newmont. The MENT and MOM claims were also staked.

Geological mapping, and geochemical sampling were performed in the Cliff and Goat Zones. Reference: Assessment Report 3186.

1972: Great Plains performed geological mapping, soil sampling and an induced polarization survey over an area centred on the Camp Zone. References: Assessment Reports 3978, 3979.

1973: The BR and BARE claims were staked. Great Plains performed further geological mapping and induced polarization surveys over the Cliff Zone and the Goat Zone and also drilled 571 metres (1874 feet) in three holes in the Camp Zone. Reference: Assessment Report 4651.

1974: Great Plains performed 649 metres (2132 feet) of diamond drilling in three holes in the Camp Zone. The core is now lost. Rock sampling was also performed in the Cliff, Goat and DM (Camp Creek and Border Creek) Zones. Reference: Assessment Report 5168.

1975: Great Plains performed 792 metres (2600 feet) of diamond drilling in five holes in the Camp Zone. Induced polarization was done over the Camp Zone. The geological history was reinterpreted and a model was formulated. Reference: Assessment Report 5709

1979: G.R.C. Exploration Company Ltd. negotiated an option on the Ball Creek property from the owners, Norcen Energy Resources Ltd. (formerly Great Plains) and Chevron Standard Ltd. 1980: J.R. Woodcock Consultants Ltd. supervised the drilling of two diamond drill holes totalling 953 metres (3127 feet). This program was performed on the South Zone, south of Ball Creek. Geological mapping and geochemical sampling were also performed, both on the South Zone and to the north of Ball Creek, on the Goat Zone and the upper Knob Creek area. The BALL claims were staked, seven kilometres southwest of the DON claims. The BALL claims were examined cursorily in 1980 and allowed to lapse. Reference: Assessment Report 8546.

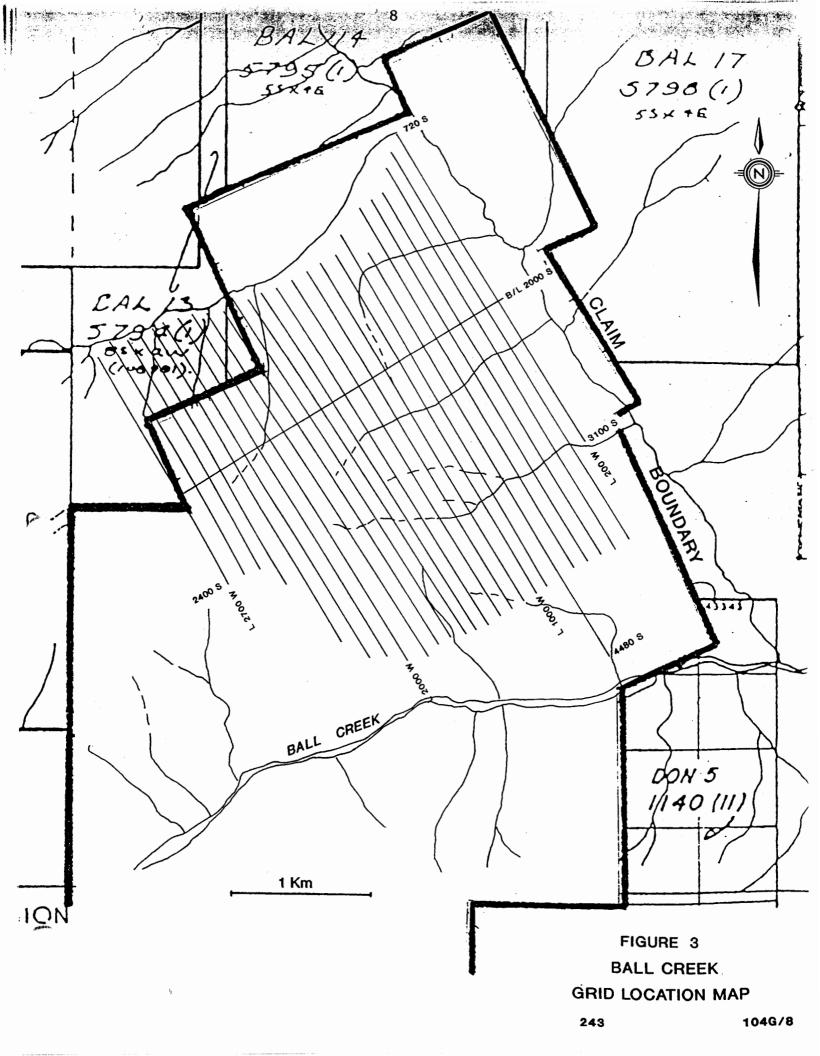
1989: Chevron Minerals Ltd. optioned the property to Placer Dome Inc. The work program completed by Placer Dome Inc. consisted of geological mapping, geochemical sampling, induced polarization, magnetometer and VLF-EM surveys. The grid location is shown in Figure 3. Drill core from 1973 and 1975, found at the campsite, was relogged and segments of the core were assayed for gold. The core from the 1974 drilling was not found.

1990: Placer Dome Exploration Ltd. drilled 4 holes totalling 330 metres (1083 feet) of NQ core. The drilling was done peripheral to the central Camp Zone.

1.5 1990 FIELD PROGRAM

Diamond drilling took place between August 16, 1990 and September 12, 1990. In total, 114 core samples were collected from the four drill holes. As well, 33 sludge samples were collected of which 20 were analyzed. The core and sludge samples were analyzed for Au and Cu.

The total cost of the 1990 field program was \$215,698.98. See the itemized cost statement at the end of the text.



2.0 GEOLOGY AND MINERALIZATION

The following descriptions of geology, alteration and mineralization are taken from the Geological, Geochemical and Geophysical Report on the Ball Creek Project, March 30, 1990 (J. Kowalchuck and R. Turna, 1990).

2.1 REGIONAL GEOLOGY

The Ball Creek area lies within Stikinia, a tectonic terrane comprised of Mississippian to Jurassic marine and non marine volcanic and sedimentary rocks and subvolcanic intrusions.

The Stikine Arch lies to the north of the property. This terrane, tectonically active during most of Mesozoic time consists primarily of Triassic and Jurassic eugeosynclinal igneous and metamorphic rocks. Immediately north of the property, the Stikine Arch is overlain by the Mount Edziza volcanic complex, an upper Tertiary to Recent assemblage of basic to acid volcanic rocks produced by a combined shield and stratovolcano.

The Bowser Basin tectonic unit lies ten kilometres east of the property. This unit consists mainly of upper Jurassic to Early Cretaceous marine and non marine sediments. Rocks of the Bowser Group unconformably overlie the older volcanic rocks of the Stikine Arch. Seventy kilometres west of the property, Mesozoic and Tertiary intrusives of the Coast Plutonic Complex occur.

The Ball Creek property is underlain by upper Triassic andesites and sediments which are intruded by a Late Triassic monzonite stock. The regional geology is shown as Figure No. 4.



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2.2 **PROPERTY GEOLOGY**

2.2.1 INTRODUCTION

Most of the property is underlain by Upper Triassic andesitic pyroclastics, flows and sediments which are intruded by Upper Triassic monzonites. The monzonites appear on the surface as dykes. The two largest dykes trend north-south underlying the zone. Monzonite dykes outside of the Camp Zone trend roughly east-west and parallel to the Cliff-Knob Creek fault zone. The rocks described above are shown as Units 1 to 5 on Figure No. 5 (Property Geology) and are referred to as the Volcanic Sequence.

The Volcanic Sequence is unconformably overlain by an Epiclastic Sequence (Units 6 to 12). This suite of rocks was derived from the older andesites and from basalt flows located at the base of the sequence. This sequence is overlain by sediments containing a lower Jurassic pelecypod (Weyla).

Structurally, the property is divided into two domains. Between Barren Fault and Ball Creek, the geology is dominated by a major eastwest fault zone, called the Cliff-Knob Creek fault zone. This fault zone is believed to continue to the southwest along Ball Creek. The area between Barren Fault and Border Creek is underlain by the southdipping limb of an anticline whose axis trends along Border Creek. The larger faults in the Camp Zone trend either east-west or north-south. The major dykes in the Camp Zone trend north-south.

2.2.2 LITHOLOGY

VOLCANIC SEQUENCE: from oldest

1. Sedimentary rocks

These rocks occur along the northern boundary of the property, in the lower parts of Border Creek and Fossil Creek. The low topographic position of the unit plus the occurrence of this unit in the core of the Border Creek anticline suggests that they are the oldest rocks on the property. Pelecypods and gastropods collected by the Ministry of Mines in 1975 provide a Norian (upper Triassic) age to these rocks.

At the northern end of Line 400W, in Border Creek, black siliceous argillites predominate. These rocks are massive and very fine grained. The rocks carry no recognizable pyrite, however carbonate veinlets in some outcrops were slightly pyritic. The rocks are hard and resistant to weathering. Along the lower sections of Fossil Creek, calcareous siltstones and sandstones form large outcrops. The sandstones weather light brown in colour and show good sorting and bedding. The beds, which are one to two centimetres thick, are contorted. They are quite sheared and weather easily. Minor amounts of pyrite are found along fractures. Some of the sandstone outcrops have been stained to a rusty colour by groundwater draining the Camp Zone gossan. Pelecypods were found in one of the Fossil Creek outcrops.

2. Andesite

The andesitic rocks are divided into the following classifications: undifferentiated(2), pyroclastics(2a), flows(2b), and dykes(2c). Pyroclastics are the most common rock type in the unit, followed by flows which are difficult to identify due to the destruction of their original flow textures by alteration. Andesite dykes are not common.

Unaltered outcrops weather a grey colour. Pyrite rich outcrops are coated with a rusty stain.

Unit 2 andesites are the thickest unit on the property. In the Camp Zone the andesites are quite shattered and hydrothermally altered. The fracturing and alteration was caused by the influx of fluids accompanying the intrusion of the Upper and Lower Dykes.

(2a) Pyroclastics

Pyroclastic rocks can be separated into two specific types; lithic tuffs, observed in outcrops in Middle Creek and the lower part of Camp Creek, and lapilli tuffs, observed in the higher parts of the property, generally above the 1400 metre elevation.

The lithic tuffs are green, poorly sorted and medium grained. Most of the clasts are angular or subrounded argillite fragments. The larger clasts are black and up to half a centimetre in size. Other clasts appear andesitic. They are supported by a matrix consisting of finer grains of the same rock types as the clasts. Type examples of the lithic tuffs are found in Middle Creek at 1140 and 1280 metres elevation.

At Middle Creek, the lithic tuffs are not mineralized. Outcrops adjacent to faults or fractures are pyritic and rusty weathering. The weakly gossanous cliff between Lines 700W and 800W on the northwest side of the baseline carries anomalously amounts of pyrite, probably related to the pyrite halo about the Camp Zone.

The lapilli tuffs typically occur as relatively unaltered outcrops southeast of Big Red Hill. They are greenish grey in colour; coarse grained and poorly sorted. Clasts, composed of porphyritic andesite are subrounded to rounded in shape. Clasts in the lapilli tuffs range from 2.0 to 5.0 centimetre size, and are supported by an andesitic matrix. The outcrops southeast of Big Red Hill are unaltered and unmineralized. Some outcrops between Big Red Hill and Little Red Hill carry up to 3% pyrite. These rocks show strong propylitic alteration, with epidotized clasts and extensive chlorite alteration of the matrix. Lapilli tuff, outcropping within the Cliff-Knob Creek fault zone is often brecciated and pyritized.

(2b) Flows

Very few flows have been mapped as outcrop. Either the flows are limited in extent, or they are hard to recognize due to the destruction of primary structures by intense hydrothermal alteration. The presence of flows is indicated by massive relict bedding in the intensely altered cliffs in Fossil Creek and in the north arm of Knob Creek. The great thickness of the bedded cliffs in these creeks suggest that the flows may be a significant part of the andesite package. Flow textures have also been recognized in thin sections of altered andesitic core from drill holes DDH73-1, DDH73-2, DDH73-3.

The flows occur between the lithic tuffs and the lapilli tuffs.

(2c) Dykes

Andesite dykes are observed in Camp Creek and in the upper parts of Border Creek and East Cliff Creek. The exact stratigraphic position for the dykes is not clear since they appear to intrude both Unit 3 and Unit 5 rocks. They are included with the Unit 2 andesites because of their composition. This whole volcanic package is thought to have been deposited over a very short period of time.

The dykes are chloritic and dark green in colour. Along Border Creek and East Cliff Creek, they are porphyritic with plagioclase phenocrysts up to 0.5 centimetres in size. One dyke along Camp Creek is about one metre thick and stands out in dark and prominent relief against the highly altered, pyritic surrounding rocks.

3. Monzonite

The monzonites of Unit 3 are only observed as dykes. The larger dykes have been named: Lower Dyke(3a), Upper Dyke(3b) and Ridge Dyke(3c). Smaller unnamed dykes were located along Fossil Creek and in the Cliff-Knob Creek fault zone.

In outcrop, the monzonites are easily recognized by their prominent potash feldspar phenocrysts, smaller plagioclase phenocrysts, and a crystalline texture. Upper and Lower Dykes, where they are removed from the zone of porphyry mineralization have significantly less pyrite than do the surrounding rocks. They are also harder and more resistant to weathering than the surrounding rocks. Upper Dyke forms a recognizable resistant ridge along the middle third of its exposure. In 1975, the Ministry of Mines calculated a potassium argon age date of 218 + / -24 million years which would place the monzonite as Upper Triassic in age.

(3a) Lower Dyke

The Lower Dyke is a porphyritic rock consisting of potash feldspar crystals in a fine grained matrix. Up to 75% of the rock is made up of phenocrysts ranging from 1.0 to 10 millimetres in size. The light grey matrix is essentially plagioclase with lesser potassic feldspar, minor quartz, mafics and pyrite. Lower Dyke is finer grained than the other monzonite dykes. It is also referred to as a latite porphyry.

(3b) Upper Dyke

The Upper Dyke monzonite is a medium grained porphyritic rock. Plagioclase and minor orthoclase phenocrysts ranging from 1.0 to 4.0 millimetres in size constitute 50% of the rock. Large 10.0 millimetre potash feldspar phenocrysts occasionally occur. Potash feldspar, along with smaller amphibole and biotite make up about 30% of the coarse fraction of the rock. The composition of the matrix is similar to that of the phenocrysts. Quartz and pyrite are minor constituents. Mafics and magnetite, although not abundant, are more common in Upper Dyke rocks than in the other monzonites. Upper Dyke rocks are usually grey in colour, however epidote and pyrite occasionally produce a darker colour in some specimens. Weathered surfaces are usually stained rusty by iron rich waters draining surrounding pyritic rocks.

The Upper and Lower Dykes have not been altered by the porphyry event as were the surrounding andesitic rocks. Although the intrusion of the monzonite is thought to be the cause of the hydrothermal event which produced the regional alteration and porphyry mineralization, the dykes themselves were not altered. They may have been emplaced late in the overall intrusive event.

(3c) Ridge Dyke

The composition and texture of the Ridge Dyke are similar to those of the Upper Dyke. Pink potash feldspar phenocrysts up to 1.0 centimetre size occur within a medium grained matrix of plagioclase and potash feldspar, minor quartz, biotite and pyrite. The hand specimens and outcrops are light grey.

Ridge Dyke appears to be the faulted and rotated extension of Upper Dyke. The Ridge Dyke, if rotated to the south, would align and connect with Upper Dyke at Big Red Hill. The two dykes have the same composition and texture. Although no fault has been mapped in this location, the VLF EM and magnetic survey signatures suggest a fault exists that has shifted and rotated the dyke to produce the two diverging dykes.

OTHER DYKES

Several small monzonite outcrops lie within the shattered zone between Barren and Cliff Faults. They all have a similar composition and texture, which is the same as the composition of Lower Dyke. They may be the disrupted fragments of a large dyke which is the rotated extension of Lower Dyke, similar in structural relationship to that of Upper and Ridge Dykes. The many smaller monzonite dykes show the same lack of hydrothermal alteration as the larger monzonite dykes.

Two dykes from East Cliff Creek which contains 11% quartz, and the dyke from south of Big Red Hill which contains 58% potash feldspar are not part of this family of small monzonite outcrops.

4. Trachyandesite

This porphyritic rock has a pronounced trachytic flow texture, large potash feldspar phenocrysts and a dark colour. It is observed in several different modes: plug(4a) at Trachyte Knob, flows(4b) atop East Cliff Creek and a small dyke(4c) in the Cliff Zone.

The rock is porphyritic with 60 % of the rock consisting of plagioclase phenocrysts. A further 10% of the rock is made up of large (up to 2.0 centimetres long) potash feldspar phenocrysts. The plagioclase crystals show a strong flow lineation and appear to flow around the larger potash feldspar crystals. Both the orthoclase and the plagioclase crystals are well formed.

Trachyandesites are very fresh looking and show none of the alteration observed in the surrounding rocks. They are quite magnetic and contain up to 5% magnetite. This resistant rock forms prominent hills such as Trachyte Knob.

5. Lahar

The lahar consists of porphyritic andesite clasts supported by an andesite matrix. The rock is poorly sorted both at the hand specimen level and at the outcrop level. Clasts range in size from 2.0 centimetres to greater than 10.0 centimetres. Some clasts are greater than 30.0 centimetres. The matrix usually comprises less than 50% of the rock. The clasts range from maroon to grey and green and outcrops are green overall. Outcrops occasionally carry carbonate veins containing pyrite.

The lahar is very friable and produces outcrops surrounded by thick talus. Sedimentary structures are difficult to recognize because of the friable nature of the rock. Boulders of coarsely bedded lahar were found near the headwaters of Fossil Creek.

UNCONFORMITY

CLASTIC SEQUENCE: from oldest

6. Basalt Flows

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This porphyritic and amygdaloidal basalt unit, interbedded with pillow basalts is thin and limited in extent. The porphyritic basalts consist of 25% plagioclase phenocrysts in a black aphanitic matrix. The phenocrysts are 0.5 to 1.0 centimetres in size and often show a flow foliation. Locally the rock is quite vesicular with calcite filled amygdules. The rocks are finely crystalline in texture. Black aphanitic pillow basalts occur across lateral facies boundaries with the above porphyritic basalts. The pillow basalts are locally highly vesicular and are quite friable.

The basalts are non pyritic and strongly magnetic. Jasper veinlets occur occasionally throughout these basalts.

7. Basaltic Mudstone

This mudstone unit is derived from erosion of Unit 6 basalts. The mudstones are fine grained and well sorted. The mudstone also shows fine silty lamination structures. The outcrops are dark brown and maroon and are strongly magnetic. They are very friable and recessive weathering. The basaltic mudstone is a thin unit, localized to the outcrop area of the parent basalts. Lighter coloured, and esites form thin beds within this unit.

8. Andesitic Greywacke - Conglomerate

This greywacke is contemporaneous with and interfingers with the basaltic mudstone. Subangular to rounded clasts occur in a fine grained and occasionally crumbly matrix. The clasts consist of fine grained andesite, porphyritic andesites and lapilli tuff. The clasts in the conglomerate vary from a few millimetres to several centimetres in size. The clasts in the greywacke are usually less than one millimetre in size. Weathered surfaces are medium to dark grey in colour.

9. Limestone

Only one small dark grey outcrop of impure limestone was found.

10. Conglomerate

This conglomerate has a grey to greenish grey colour in outcrop. The clasts range up to 5.0 centimetres in size. They are rounded and consist mainly of feldspar porphyritic andesite. Impure limestone clasts sometimes are found sometimes. On cliffs this unit displays very coarse bedding and interfingers with the underlying greywacke.

11. Greywacke

This grey weathering unit has a coarse sandy texture. It is a well sorted rock. The clasts consist of subangular to subrounded andesite rock fragments and subhedral feldspar grains. This sandstone unit interfingers with the overlying conglomerate.

12. Andesitic tuff

Although fresh surfaces of this andesitic rock are dark green in colour, weathered outcrop surfaces have a rusty brown, greyish green and brownish grey colour. The tuff has small clasts of crystal and lithic tuff and occasional black mudstone. The clasts vary from 0.5 to 5.0 millimetres in size. The rocks are locally magnetic.

2.2.3 ALTERATION

A central potassic alteration zone is surrounded by concentric zones of argillic, phyllic and propylitic alteration.

Propylitic Alteration

Most of the andesites on the property are dark green in colour due to extensive chlorite alteration. The strongest chlorite mineralization lies just outside the area of phyllic alteration, but it is also noticeable across the entire property as an early phase within the argillic and potassic zones. Some of the chlorite alteration outside of the area of intense hydrothermal alteration may be due to a regional lower greenschist metamorphism of the surrounding rocks.

The most intense chlorite alteration was observed in outcrops lying between Big Red Hill and Little Red Hill, just peripheral to the extensive phyllic altered zone. Within the propylitic alteration zone, the main alteration minerals are chlorite, epidote and pyrite. Petrographic descriptions of rocks from this zone have identified up to 10% chlorite, 1% epidote and 4% pyrite.

Phyllic Alteration

Phyllic alteration, distinguished by extensive sericite, pyrite and silica mineralization forms distinctive gossanous outcrops on the property. Outcrops have a bleached and rusty appearance. Sericite mineralization averages 10% although one sample (89T208) contained 25% sericite. The pyrite content ranges up to 5%, mainly as disseminations but also as fracture fillings. Certain outcrops show extensive, pervasive silicification.

Phyllic alteration south of the Camp Zone is best observed at Big Red Hill and Little Red Hill, where the rocks are bleached and gossannous. These rocks were often mapped incorrectly as their original lithology is difficult to recognize as the volcanic and sedimentary textures were completely destroyed by the alteration. Previous mappers called these rocks "felsite". The Red Hills are quite resistant to erosion due to the prevalence of quartz veinlets in the rocks.

West of the Camp Zone, the phyllic zone is observed in cliffs between Fossil Creek and Upper Dyke. At this location, Unit 2 rocks are strongly silicified and pyritized.

North of the Camp Zone, the phyllic alteration is seen in the two northernmost outcrops of Upper Dyke and on outcrops in Camp Creek.

East of the Camp Zone, the phyllic alteration occurs in an outcrop 300 metres northeast of camp. The bleached and gossanous cliffs at the 1100 metre elevation in Middle Creek and the north arm of Knob Creek may also be as a result of phyllic alteration.

Argillic Alteration

Argillic (clay) alteration was only recognized in drill core (holes DDH73-3 and DDH75-3), not in outcrop. It consisted of pervasive alteration of the original plagioclase to a soft earthy white clay material, probably kaolin. At Ball Creek, the argillic alteration occurs within and immediately surrounding the zone of intense potassic alteration.

Potassic Alteration

Potassic alteration in the form of pink potash feldspar envelopes around fractures and quartz veins was noted in drill core from holes DDH73-2, DDH73-3, DDH75-3 and DDH75-5. In some of the drill holes, sections originally logged as being intensely silicified, were actually showing pervasive potash feldspar alteration. These rocks contain up to 70% potash feldspar primarily as introduced material. Potassic alteration is accompanied by a significant increase in magnetite content.

Several outcrops within the area of previous drilling also showed extensive pink potash feldspar envelopes. Outcrops are too strongly weathered to recognize the potash feldspar flooding of rocks. The areas of potassic alteration have been noted on the geology map.

2.2.4 MINERALIZATION

Sulphide mineralization on the property occurs in a similar pattern to that associated with porphyry copper-gold deposits described in the literature. A pyrite halo surrounds Camp Zone chalcopyrite-molybdenite mineralization. Peripheral to the annular pyritic zone, galena and sphalerite mineralization occur in carbonate veins. Chalcopyrite mineralization is widespread on the property, primarily located within the Camp Zone but also found peripheral to the pyrite zone. Molybdenite was observed within the Camp Zone and in the Cliff Zone.

Pyrite

The most intense pyrite mineralization occurs within the phyllic alteration zone surrounding the Camp Zone stock. The type locations for this quartz-sericitepyrite mineralization are Big and Little Red Hills. The outer periphery of the gossans about the Camp Zone can be considered to be the outer periphery of the pyrite halo. The pyrite halo shows as a chargeability anomaly around and within the Camp Zone. Though the most intense pyrite coincides with the phyllic alteration zone, pyrite mineralization as expressed by gossans, appears to extend somewhat farther outward from the Camp Zone.

Within the Camp Zone and in the phyllic zone, pyrite occurs most abundantly in fractures and quartz veinlets in andesites. Lesser amounts of pyrite occur as blebs and disseminations in andesites and monzonites, usually near intrusive contacts or faults. Unaltered andesites and monzonites normally contain less than 1% disseminated pyrite.Outside of the Camp Zone, pyrite mineralization is confined to fractures and quartz veinlets in the fault zones.

Pyrite mineralization at the Goat Zone is only found along the cliff faces formed by the Ball Creek Fault. The sulphide mineralization is restricted to the fault trace and is not as extensive as it appears on surface. Pyrite, galena and sphalerite occur within quartz carbonate veins in the Goat Zone Fault.

Sheared rocks exposed along the Cliff Zone Fault in East Cliff Creek are very pyritic. One brecciated section of fault carries 30% pyrite as its matrix.

Copper Minerals

Chalcopyrite occurs in quartz veinlets and as blebs in fault breccias in the Goat Zone and Cliff Zone. Small specks of chalcopyrite can be seen in andesitic float in the Camp Zone near DDH75-5. Minor amounts of chalcopyrite were also observed in quartz veinlets in drill core.

Malachite is a common occurrence on the rusty outcrops along Camp Creek. Occasional pieces of andesite float from the Camp Zone and Cliff-Knob Creek fault zone contain specks of malachite on weathered surfaces.

Molybdenite

Molybdenite occurs in quartz veinlets and fractures in fault breccias along the Cliff Zone. Small specks of disseminated molybdenite were observed in monzonite drill core.

Lead and Zinc Minerals

Galena and sphalerite occur within narrow carbonate veins in the Goat Zone and at Border Creek. Some of the quartz veinlets in the Goat Zone also carry small amounts of galena.

Magnetite

Magnetite is a common alteration mineral in the potassic alteration zone. Accompanying the potash feldspar selvages around quartz veins over the Camp Zone, magnetite forms up to 5% of the rock. The ground magnetic survey defines the potassic zone as distinct circular magnetic high surrounded by an annular ring of low magnetism. Magnetite is also common in many of the younger volcanic rocks on the property, primarily the trachyandesite and the basalt.

Gossans

A distinct rusty gossan overlies the Camp Zone mineralization and the surrounding area of phyllic alteration. This gossan extends north to Border Creek, west to the cliffs along Fossil Creek, east to the 1080 metre elevation and south to Big and Little Red Hills.

A spectacular gossan is seen along the cliffs of the Goat Zone. The Cliff Zone gossan is bounded on the west by West Cliff Creek and on the south by the Cliff Zone Fault. A 150 metre wide zone of rusty talus marks the trace of this fault into Knob Creek.

Rocks in the upper parts of Knob Creek, Middle Creek, Camp Creek and Fossil Creek are very rusty due to concentrations of pyrite within the faults crossing the creeks.

Quartz and Carbonate Veins

Quartz stockworks were observed at two localities in the central Camp Zone. Quartz veins up to 1.5 centimetres wide give the stockwork zone a quartz content of 20 to 50 percent. Drill core from the Camp Zone showed that the quartz veinlets occur mainly in andesites. Veinlets are less common in the more massive monzonites. The veinlets are usually smaller than 1.0 centimetre wide and carry very few sulphides. Quartz and carbonate veins up to about 3.0 centimetres wide occurs in fault breccias in the Goat Zone and the Cliff Zone. The quartz veins occasionally contain minor amounts of sulphides. Carbonate veins occur mainly in the Goat Zone. The Border Creek showing and other fault zones over the property also contained some carbonate veins.

2.2.5 STRUCTURAL GEOLOGY

Two main structural patterns occur as faults on the property; east-west and north-south. The east-west structural direction has a bearing of 060° and is seen in the following faults: Ball Creek fault, Cliff Zone Fault, Barren Fault, North Arm Fault and Middle Creek Fault. The north-south structural direction bears 330° and is seen in the following faults: Devil's Creek fault, South Zone Fault, Goat Zone Fault, Camp Fault and Fossil Creek fault. The north-south faults cause a right lateral displacement of some of the eastwest structures. The apparent bending of Barren Fault, North Arm Fault and Middle Creek Fault at their intersections with Camp Fault may be caused by right lateral movement along this and other north-south structures.

3.0 SURVEY CONTROL

All 1990 drill collar locations were tied into the grid which was installed during the 1989 field season. A hip chain and compass was used to locate each drill collar to the nearest grid picket. Foresight and backsight pickets were installed at each drill site utilizing a Brunton compass and tripod. These pickets were used to line up the drill at the correct azimuth.

4.0 DIAMOND DRILLING

4.1 Sample Collection, Preparation and Analysis

The drill core was systematically sampled every three meters except where a lithology break was encountered. At lithology breaks, sample intervals would reflect the change. In total, 114 core samples were collected from the four drill holes.

Sludge samples were taken where recovery was poor or where core was sheared and fractured. Generally, the sludge samples were collected over a 10 foot run. These samples were sometimes collected over a shorter run, when drilling conditions prohibited collection over a full 10 foot run. In total, 33 sludge samples were collected from holes DDS-12, DDS-13 and DDS-15, of which 20 were analyzed. The remaining 13 sludge samples were not analyzed because they were collected in zones of good core recovery. Within these zones, the drill core assays were considered to be adequate.

The core and sludge samples were sent to the Placer Dome Laboratory in Vancouver for analysis. The core samples were crushed and pulverized, and then a sub-sample was weighed and digested. The sludge samples were oven dried and sieved to produce a -80 mesh fraction, from which a subsample was weighed for analysis. Both the core and sludge samples were analyzed by atomic absorption for Au and Cu. The digestion and detection techniques used are presented in Appendix # 4.

4.2. Treatment and Presentation of Results

All drill core was logged using the Placer Dome Inc. modified Geolog system. The logs were later entered into a computer using the Qedit program. This program then facilitated the plotting of true drill cross sections for each drill hole, using a pen plotter (Figs. 9, 10, 11 & 12). The surface projections of these drill holes were plotted on the Geology and Diamond Drilling Plan (Fig. 5). The analytical results for the core and sludge samples are listed in tabular form, with the corresponding drill core intervals in Appendix # 2. A table containing 1990 diamond drilling information (table 2), is included on the next page.

4.3 Drilling Logistics

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The four drill pads were prepared in advance by using various combinations of blasting, digging, brush or tree clearing and cribbing. A modified JKS 300 diamond drill was used to produce NQ sized core. The drill was flown to and from the property, and between drilling sites with a Bell 206 helicopter.

The drilling conditions this year were generally very poor, due to highly fractured and faulted ground. Cave-ins were common and large amounts of drilling mud was required for hole stabilization. Generally, water return was lost very early in any hole. Drill hole DDS-13, which was the most difficult to drill, required 60 feet of casing to stabilize the hole.

DRILL HOLE	LOCATION	BEARING (degrees)	DIP (degrees)	FINAL DEPTH
DDS-12	18+30W 30+20S	325	-46	97.23m (319')
DDS-13	11+90W 26+40S	325	-46	65.68m (215.5')
DDS-14	08+06W 21+57S		-90	92.50m (303.5')
DDS-15	11+92W 13+13S	090	-60	74.67m (245')

TABLE 2: 1990 DIAMOND DRILLING INFORMATION

4.4 Strategy for Selecting Drill Targets

All previous diamond drilling on this property (except for drill holes 73-1, 75-1 and 75-2) was targeted in the central potassic core of the deposit. Holes 73-1, 75-1 and 75-2 were drilled on the boundary of the phyllic and potassic zones. As well, hole 73-1 was drilled almost entirely within a monzonite dyke (later in this report, it will be demonstrated that andesite is a better drill target than monzonite). This drilling, which was performed in 1973,74 and 75, consisted of 11 holes totalling 2012 m (6606 ft.). The assay results from this drilling illustrated that the potassic core was mineralized with copper and gold, however, the grade was sub-economic.

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The most recent models on porphyry deposits illustrate that the optimum gold concentration is not found in the potassic alteration core. Better gold values are commonly located on the boundary of the phyllic and potassic zones or out in the propylitic zone. Of these two locations, the phyllic/potassic boundary is the more likely place to find economic mineralization.

The basic strategy for this years drilling was to step out into the phyllic and potassic alteration shells in an effort to locate an economically viable ore zone. In order to optimize drill target locations, a system of stacked profiles was used. The methodology of this system can be described as follows: first of all, sections: 800W, 1000W, 1100W, 1200W, 1300W, 1400W, 1600W, 1800W and 2000W were chosen to be worked with. For each of these lines, a series of 1:5000 scale stacked profile cross sections (looking SW) were derived. The parameters utilized in each profile were: (a) the induced polarization survey; (b) the magnetometer survey; (c) Gold geochemistry; (d) Copper geochemistry; and (e) geology. On each stacked profile, the five cross sectional parameters were lined up with respect to grid coordinates and then stacked on top of one another. Once this was accomplished, it was possible to visually scan each profile to see if optimal conditions were present for all five parameters at any point along the grid. In other words, it was possible to select the optimum conditions of geophysics, geochemistry and geology and thereby choose the best drill locations. Optimal conditions for each parameter were considered to be as follows: (i) high chargeability and low resistivity from the I.P. survey; (ii) low magnetic readings from the magnetometer survey (because of magnetite destruction in the phyllic alteration halo); (iii) peaks in gold and copper geochemistry values; and (iv) location in the Upper Triassic andesitic country rocks (map unit 2). The stacked profiles on lines 800W, 1200W, and 1800W (figures 6,7 and 8 respectively) were used to locate the 1990 drill holes. These figures are included at the end of this report.

4.5 Discussion of Results

(a) Sludge Samples

The sludge sample assay returns correlated very well with drill core assay data, however, the values were usually slightly higher. Gold values from sludge samples were 25 ppb higher, on average, than corresponding values from drill core. Copper values from sludge samples were 120 ppm higher, on average, than the corresponding drill core values.

(b) Alteration Descriptions

Phyllic alteration:

Phyllic alteration is always represented by the appearance of sericite. This sericite occurs in essentially three different ways: (i) as an alteration product of feldspar (apple green coloured); (ii) as local pervasive patches (apple green coloured); and (iii) as isolated bright green spots.

Propylitic alteration:

Propylitic alteration is represented by chlorite, calcite and another carbonate mineral (possible ankerite). The chlorite occurs in two forms: (i) as an alteration product of mafic minerals; or (ii) occasionally as coatings on fractures. Calcite occurs in five different ways: (i) as fracture fillings; (ii) as an alteration product of feldspar phenocrysts; (iii) as an alteration product of chloritized mafic phenocrysts; (iv) as an alteration product of the isolated bright green sericite spots; and (v) pervasively in the rock matrix. The other carbonate mineral (ankerite ?) was always found pervasively in the rock matrix.

<u>Clay (argillic) alteration:</u>

The type of clay which is present in the clay alteration zones is unknown, but it is likely kaolinite. Clay alteration was observed in two forms: (i) as an alteration product of feldspars; and (ii) as pervasive alteration of the entire rock.

Silicification

Silicification, or quartz flooding, was only observed in the upper andesite lapilli tuff unit of hole DDS-15. This silicification occurs as pervasively altered patches.

(c) General Observations

Lithology:

Gold and copper values are higher in the andesite than in the monzonite. Mineralization is usually better in the volcanic because it appears to be more fractured than the monzonite, and is better prepared for mineralizing fluids. The monzonite was probably the mechanism that caused the movement of hydrothermal fluids and mineralizing fluids and was still warm and plastic during the emplacement of the copper-gold mineralization. Because of its plastic nature, it did not undergo brittle fracture and thus did not contain the many small quartz sulphide veinlets observed in the andesite. The andesite was quite brittle during the intrusive and hydrothermal event and became quite fractured, well preparing it for the influx of mineralizing fluids.

MINERALIZATION

Pyrite:

In hole DDS-12, intense pyrite mineralization occurs within the andesitic rocks. This pyrite carries anomalous gold values. In DDS-13 and DDS-14, the pyrite is not as common. Other than these observations, no correlations can be made between pyrite and rock types, alteration, other mineralization or assay values.

Chalcopyrite:

Chalcopyrite was not observed in any of the 1990 drill core.

Sphalerite, galena and molybdenite:

These three minerals occur in minor amounts, in the upper portion of the andesite breccia unit of hole DDS-12 (5.29-42.94 m). Galena is present only as blebs in calcite veins (up to 3% thin, cross-cutting calcite veins occur in the andesite breccia). Molybdenite occurs only as disseminated blebs in the rock matrix. Sphalerite can be found as either blebs in calcite veins, or as disseminated blebs in the rock matrix. This mineralized interval is correlative with anomalous gold values (50-170 ppb).

Magnetite:

Magnetite occurs locally in holes DDS-12 and DDS-15 wherever the rock is relatively fresh. Except for areas of potassic alteration where secondary magnetite has been formed, non of the hydrothermally altered areas contain any magnetite. The hydrothermal alteration destroyed all of the primary magnetite mineralization.

ALTERATION

Phyllic alteration:

In drill hole DDS-12, phyllic alteration is more intense in the andesitic rock. Sericite alteration also is found around most of the fault zones. No other observations were noted for this alteration suite.

Propylitic alteration:

Propylitic alteration can occur extensively in both the monzonite and andesite, however, it tends to be more intense in the andesite. In DDS-13, propylitic alteration is much less intense in the fault zones. In general the fault zones all have undergone more intense alteration, say phyllic and argillic.

<u>Clay (argillic) alteration:</u>

In hole DDS-15, intense clay alteration occurs in the upper andesite lapilli tuff and monzonite units. This clay alteration is spacially associated with anomalous copper values (116-260 ppm). Silicification also occurs locally with this clay. In DDS-13, the presence of clay is directly associated with intense shearing and fracturing. Most of this clay is fault gouge. Some of the clay, however, is a result of hydrothermal alteration (likely caused from hydrothermal fluids travelling up the fault).

Silicification:

Silicification occurs only in the upper andesite lapilli tuff unit of hole DDS-15, between 8.27-14.04 m. This silicification is intense and patchy. It is spacially associated with moderate clay alteration and anomalous copper values (116-240 ppm).

(d) Individual drill hole observations

The following generalizations have been noted for each of the 1990 drill holes:

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<u>DDS-12:</u>

- Phyllic alteration: intense to weak.
- Propylitic alteration: intense.
- Clay alteration: occurs locally and is weak to moderate.
- Pyrite mineralization: intense (5-10%) to moderate (trace-3%).
- Magnetite mineralization: occurs locally and is moderate.
- Galena, sphalerite and molybdenite mineralization: occurs locally and is weak.
- Structure: the major fault which occurs in the andesite breccia between 44.76-56.94 m, is possibly the down dip extension of the Cliff Zone Fault.

DDS-13:

- Phyllic alteration: weak.
- Propylitic alteration: moderate.
- Clay alteration: intense to moderate.
- Pyrite mineralization: intense (5-10%) to moderate (1-4%).
- Structure: major fault zones occur between 4.57-20.68 m, 24.29-28.85 m and 54.41-58.02 m. These faults are likely down dip expressions of the Barren Fault and/or North Arm Fault Zones.

DDS-14:

- Phyllic alteration: weak.
- Propylitic alteration: moderate.
- Pyrite mineralization: intense (5-6%).
- Structure: major faults occur between 19.79-35.20 m and 83.65-88.09 m.

DDS-15:

- Phyllic alteration: intense to moderate.
- Propylitic alteration: intense to moderate.
- Clay alteration: occurs locally and is intense to moderate.

- Silicification: occurs locally and is intense.
- Pyrite mineralization: moderate (1-3%) to weak (trace to 0.4%).
- Magnetic mineralization: occurs locally and is moderate to weak.
- Structure: major faults occur between 36.66-38.66 m, 51.51-55.32 m and 59.21-61.87 m.

4.6 Recommendations for Future Diamond Drilling

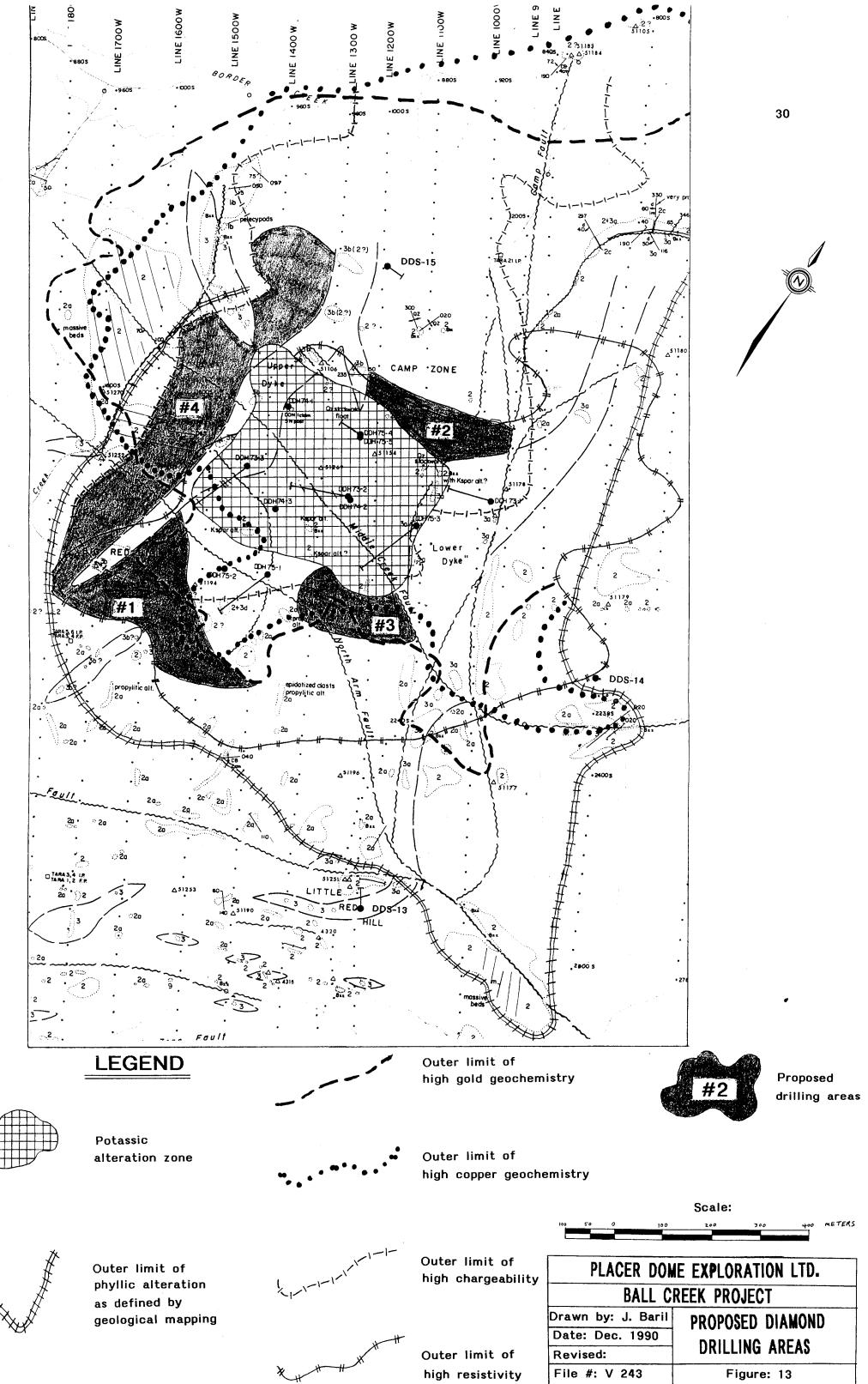
Figure 13 on page 30 forms the basis for the following discussion. This figure was taken from a section of figure 5 centered around the Camp Zone, and it has been photo-reduced to 75% of its original size. The purpose of this diagram was to further interpret the alteration within and surrounding the Camp Zone, and thereby select the best areas for future drilling.

The potassic alteration sone is outlined on Figure 13 by a square grid pattern. This zone was delineated by two methods. First, the zone was outlined by a strong magnetic high because it contains alot of magnetite. Secondly, the zone was delineated based on visual observations of secondary potassium feldspar in drill core, and surface outcrops.

Two induced polarization zones have been outlined on Figure 13. The first zone is represented by a line which shows the outer limits of high chargeability. This line is based on a cutoff of -14 millivolts/volt at the fourth separation level (120 meters maximum depth). The zone of high chargeability represents a high sulphide content (most likely disseminated in nature). The sulphides likely consist of pyrite, with lesser chalcopyrite and molybdenite. The second zone is depicted by a line which outlines the outer limits of high resistivity. This line is based on a cutoff of 1000 ohm-meters at the fourth separation level (120 meters maximum depth). This zone of high resistivity likely indicates a broad zone of silicification (due to the addition of quartz from either the phyllic alteration, or from the emplacement of quartz stockwork). The high chargeability readings associated with low resistivities immediately west of the potassic alteration zone (proposed drilling area #4), is probably due to increased sulphide mineralization (P. Walcott, 1989). This zone has been assigned the lowest priority of all four drilling areas, because the increase in sulphides is believed to be indicating a pyrite shell.

The outer limits of high gold and copper geochemistry, have been outlined by two lines on Figure 13. These lines are based on cutoffs of 80 ppb gold and 130 ppm copper. In theory, these outer limits should correspond to the outer boundary of the phyllic alteration zone. If down slope soil creep is accounted for, the anomalous gold and copper geochemistry boundaries correlate well with the outer phyllic zone boundaries. The phyllic zone is actually very patchy, so the outer boundary which has been drawn on Figure 13 based on geological mapping, should only be considered approximate.

Four areas of proposed drilling have been outlined on Figure 13. These areas have been listed in order of priority, with area #1 being the highest, and area #4 being the lowest. Basically, these areas are concentrated around selected parts of the inner phyllic zone, within andesitic rocks (map unit 2). According to porphyry copper deposit models, an ore shell or zone of higher grade mineralization should be located on the inner flanks of the phyllic zone. An attempt was also made to place the proposed drilling areas where chargeability, resistivity and gold and copper geochemistry are all high. Proposed area #1 extends outside of the anomalous gold and copper geochemistry boundary, to account for downslope soil creep. A gap has been left between areas #1 and #3, because this portion has already been tested by drill holes 75-1 and 75-2. Area #3 has been assigned a lower priority, as it is located outside of the chargeability high. As mentioned above, proposed area #4 has been given the lowest priority, because the high chargeability and low resistivity responses are thought to be indicative of a pyrite shell.



5.0 CONCLUSIONS AND RECOMMENDATIONS

"The various exploration techniques utilized in 1989 supported each other in describing a classical porphyry copper hydrothermal event. The geological mapping outlined a roughly concentric set of alteration assemblages, starting with a central potassic zone, then a patchy phyllic zone and finally an extensive propylitic zone. Soil geochemistry located a molybdenum anomaly over the central potassic zone, anomalous gold and copper covering the area within the potassic and phyllic zones and anomalous lead-zinc-silver in the outlying propylitic zone. Magnetics mapped the high magnetite content of the potassic zone and the accompanying magnetite depletion over the phyllic zone. Induced polarization mapped the high chargeability over the potassic and phyllic zones. The sericitic alteration of the phyllic zone was shown by the low resistivity." (J. Kowalchuk and R. Turna, 1990)

"The 1989 program also confirmed the conceptual idea that the Ball Creek deposit could be a gold bearing copper porphyry. The potential deposit has dimensions of 1500 by 1000 meters. Gold geochemistry in both soils and drill core from 1989 showed the anomalous precious metal content of this deposit." (J. Kowalchuk and R. Turna, 1990)

The 1990 drilling program was designed to test optimum targets in the phyllic and propylitic alteration halos. This drilling unfortunately failed to produce any significant results. The four drill holes were essentially drilled through weakly mineralized faults and/or dykes. The target area of this deposit, however, is extremely large. The four short holes drilled in 1990 were not sufficient to test the true potential of this deposit. A moderate sized drill program is recommended for 1991 in an effort to locate a large zone of economic mineralization. Most of this drilling should be concentrated along the boundary between the potassic and phyllic alteration zones as outlined in Figure 13, since this is commonly where the highest grade mineralization is found in porphyry copper-gold deposits.

The Cliff Zone was only partially mapped and sampled in 1989. The soil sampling returned some very promising Au, Ag, Cu, Pb, Zn and As signatures. Follow up mapping and sampling of this zone is recommended for 1991.

In 1989, soil line 800 W extended along the northeast end of the Trachyte Knob, and from there, continued southeast down into the Ball Creek Valley. The portion of this line between Trachyte Knob and Ball Creek returned anomalous values in Au, Ag, Cu, Pb, Zn and As. This area has not been previously mapped or rock sampled. Geological mapping, rock sampling and more soil sampling are recommended in this area for 1991. The Goat Zone was not mapped or sampled in 1989. Geological mapping and rock and soil sampling are suggested for 1991. Since this area is fairly inaccessible due to steep cliffs, it should be considered a lower priority area.

SUBMITTED BY:

John Baril.

John F. Baril

ITEMIZED COST STATEMENT BALL CREEK PROJECT

Personnel:

John Kowalchuk (District Geologist - overall supervision) Glenn Shevchenko (Senior Geologist - overall supervision) John Baril (Project Geologist - on site supervision) Coral Knight (Camp Cook) Cynthia McNabb (Core Splitter, Field Helper) Jean-Pierre Jutras (Field Helper) Dave Hayward (Field Helper) Blake Rear (Field Helper and Computer Technician)

Contractors:

Asmith Diamond Drilling Ltd. M. J. Moreau Enterprises Ltd. (drill pad preparation) Jaycox Industries Ltd. (expediter) Canadian Helicopters (Pilot: Brian McCarthy)

Breakdown of Expenditures:

Cost \$

Site preparation Equipment maintenance Camp operations Equipment purchases Telephone and teletype Vehicle expense Freight Travel - general Helicopter Fixed Wing transport Geological field activities Geochemical field activities Geological studies Geophysical studies Geochemical studies Assaying Expediting Drill pad preparation Diamond drilling Report preparation		6,702.35 118.22 23,649.54 9.640.06 646.88 8,103.73 1,361.31 4,773.60 43,859.60 1,717.43 8,938.60 4,279.53 18,950.25 6,584.00 574.00 799.50 2,078.86 10,246.39 49,466.32 13,208.81
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TOTAL

\$ 215,698.98

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STATEMENT OF COSTS

PERSONNEL

John Baril - Project Geologist 60 days @ #300 p/d	18,000
Coral Knight - Cook 30 days @ \$250 p/d	7,500
Cynthia McNab - Field Assistant 30 days @ \$200 p/d	6,000
J.P. Jutras - Field Technician 4 days @ \$200 p/d	800
Dave Hayward - Field Technician 4 days @ \$200 p/d	800
Blake Rear - Computer Technician 8 days @ \$250 p/d	2,000
John Kowalchuk - Supervisor 5 days @ 400 p/d	2,000
Glenn Shevchenko - Supervisor 4 days @ \$350 p/d	<u>1,400</u>
TOTAL LABOUR COSTS	<u>\$38,500</u>

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CONTRACT AND INVOICE COSTS

Diamond Drilling - 330 metres	\$ 50,198
Drill Site Preparation	10,246
Helicopter - 65 hours	43,860
Fixed Wing - 1 trip	789
Freight	1,361
Travel	3,000
Vehicle Expense	8,103
Camp Operation	15,000
Equipment Purchases	9,640
Communications	646
Expediting	2,078
Assaying - 114 core samples and 33 sludge samples	2,500
Report Preparation	5,000
TOTAL CONTRACT COSTS	<u>152,421</u>
TOTAL COST CONTRACT AND LABOUR	<u>\$ 190,921</u>

LIST OF REFERENCES

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Durfeld R., McInnis M.D. 1975: Great Plains Development Company of Canada Ltd. British Columbia Project Year End Report Ball Creek Property

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Walcott P.E. 1989: A Geophysical Report on an Induced Polarization Survey for Placer Dome Inc. - Iskut Area, British Columbia, NTS: 104G/8

Woodcock J.R. 1980: Ball Creek Prospect for GRC Exploration Company.

Woodcock J.R. 1981: Ball Creek Project for GRC Exploration Company

Statement of Qualifications:

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I, John Baril, state that:

- 1. I graduated from the University of British Columbia, Vancouver, B.C. in 1988 with a Batchelor of Science degree in Geology.
- 2. Since 1987, I have been engaged in mineral exploration in British Columbia and the Yukon Territory.
- 3. I was personally engaged in fieldwork on the Ball Creek Project and am responsible for the interpretation of data, and the writing of this report.
- 4. My business address is:

Placer Dome Exploration Limited 103 Platinum Road, Whitehorse, Yukon Y1A 5M3

5. My home address is:

#4 - 100 Lewes Boulevard Whitehorse, Yukon Y1A 3V5

In Baril.

John F. Baril

APPENDIX # 1

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	P 4294 4476 Colour is light areenish - grey.	83 P P × m 0 N Z 11 1 1 3 Q 1 0) D 1
(X)	R Fildspar phenocrysts occur along w a R fine grained groundmass. About 5 % s	pots of a soft, bright green alt hika (FE3) are present.
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	UNIQUE 10 OF PROJECT DRILL HOLE/TRAVERSE SIZE OF CORE LOGGED BY D IDEN6B0201BALL DS S-12 MQWL AUG910JFB DRILL COORD SYSTEM UNITS MAY AVF TOTAL DEFINICENTIAZM VANG SILE DI	RILLER (S) MONTH YEAR TYPE TIME-HAS SURVEYED SYSTEM GRID AZIMUTH PAGE OF ALV 690300 TFB
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	PLACER DOME INC. GEOLOG DRILLHOLE HEADER FORM
EDEN6802	
TPRJPLAC	ER DOME EXPLORATION LTD. BALL CREEK PROTECT
TURN'G PT. F R O 000=Coller F R O 5 O O O	00 6568 MT 65.68325.00-46.00 500 500 500 500 500 500 500 500 500
	COVERY THOO AND AND AND AND WITH SUPER UNITS See Note 4
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→ S 0 0 1 → S 0 0 2	M T O TOTAL DEPTH / LENGTH AZM CLOCKWISE V-ANG DEG UT PR. TRUE N. V-ANG DEG UT O O O O O O O O O O O O O O O O O O O
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	rile No. (Trpicelly 1.) - ASSAY FIELD NAMES SEE NOTE 2
	CALLE DESCRIPTION CARDS ARE OPTIONAL CROSS OUT IF NOT REQUIRED OF FELACED AV FEMARES
SAMP FRO	IE ASSAY RECORDS
$\rightarrow \begin{array}{c} A & 0 & 0 \\ \hline A & 0 & 0 \\ \hline A & 0 & 0 \end{array}$	

Do not change INAM, INAM, ISCL, ISCL, or AUMM card definitions durin a project. Blanks may be changed haver.
 On AUMM cold right adjust names so that R H 4 letters make sense. They will be stats header names.
 Units of distance on S000 card are far survey coordinates, thase on ISCL cord are far downhole distances.

4 - To define XX type field put XX in upper tier lower tier then becomes corresponding How and amount field

itional "S" or "A" cards are rewired use anather header farm and cross out unwasted partions. er "S" or "A" cards an kerpunched partian an form 2

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CROSS
Notes I Do'not change /NAM, INAM, /SCL, ISCL, or AUMM card definitions durin a project. Blanks may be changed hower 2. On AUMM card, right adjust names so that R H 4 letters make sense. They will be "stats" header names. or enter "5" or "A" cards on Rejpunched parties on Form 2.
3. Units of distance on SOOO cord are far survey coordinates, those on /SCL card are for downhole distances.

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			UNIQUE ID OF PROJECT DRILL HOLE/TRAVERSE SIZE OF CORE LOGGED BY DRIL IDE N 6 B 0 2 0 1 B A LL PD 5 -1 4 Mg WL SEPT 70 JFB DRILL COORD SYSTEM UNITS M/F TOTAL DEPTH/LENGTH AZM V ANG S MT 92.050 0 0 0 00	LER (S) MONTH YEAR TYPE TIME-HRS SURVEYED SYSTEM GRID AZIMUTH PAGE OF SEP 90 300 15FB 1100 1000 1000 1000 1000 1000 1000 10
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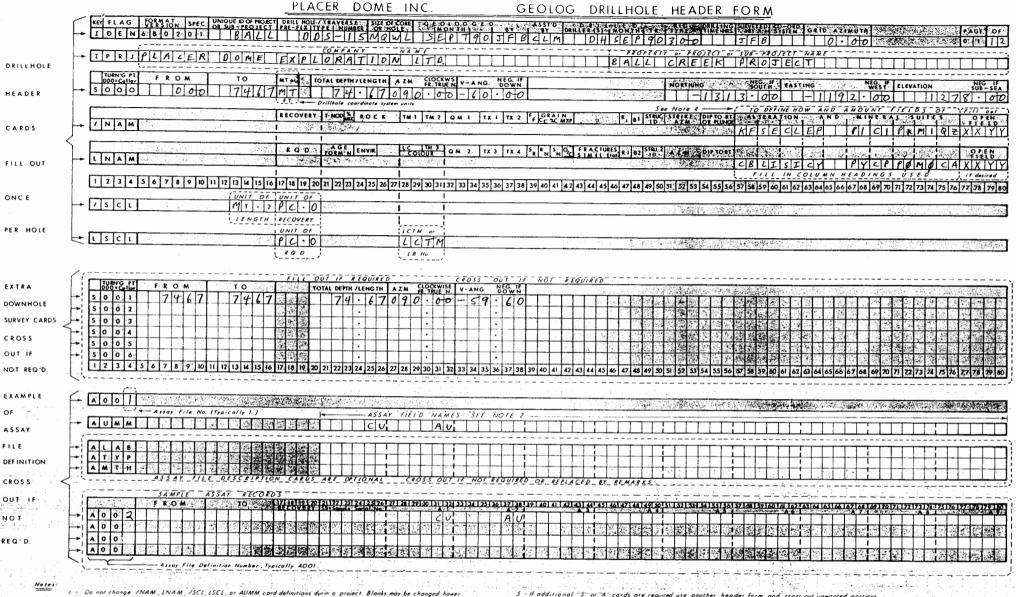
GRAPHIC LOG	UNIQUE ID OF PROJECT DRILL MOLE/TRAVERSE SIZE OF CORE LOGGED BY DRILLER (S) MONTH YEAR IDEN6602018ALL 0005-144 MQWL JEPT90JFB 1 3EP90 DRILL COORD SYSTEM UNITS	TYPE TIME-HRSTSURVEYED SYSTEM GRID AZIMUTH PAGE OF STO JFB I I I IIII IIII IIII STHING ELEVATION ELEVATION IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
S WINERALIZATION R T F ALTERATION C U A K C C g T U U I I O Y R R U P	HOREACON F R O M T O 1 2 3 4 5 6 7 8 9 10011 121314 1516 PLACER DOME INC. Isometry from the first of	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
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	73 R 7315 7320 Broken core (cave).	
	D 77420 77720 96 X 76 X	
	74 R 71435 7553 Lightly bleached core. Terture has been washe	$\frac{1}{4} \circ \kappa^{\frac{1}{2}} \cdot \frac{1}{4} + $
X	76 R 7590 7602 Moderate shearing. Unable to obtain orientation	$ \underbrace{ \underbrace{ \underbrace{ \underbrace{ \underbrace{ \underbrace{ \underbrace{ \underbrace{ \underbrace{ \underbrace{ \underbrace{ \underbrace{ $
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	77 R 7707 7771 Texture has been washed out of the ore. D 7720 8020 93 X	
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GRAPHIC LOG	UNIQUE ID OF PROJECT DRILL NOLE/TRAVERSE SIZE OF CORE LOGGED BY DRILL IDEN6802018ALL DDS-144 MQWL SEPT90JFB DRILL COORD SYSTEM UNITS - M/F TOTAL DEPTH/LENGTH AZM V ANG S 1 1 1 1 1 1 1 1 92.050 0 0 - 90.000	LCR (S) MONTH YEAR TYPE TIME-HRS SURVEYED SYSTEM GRID AZIMUTH PAGE OF ISEP90300 JFB ISEP ISEP<
S MINERALIZATION R T F ALTERATION C U A C U A K C C C J U U J T U U J Y R R J P	1 2 3 4 3 6 7 8 9 10 11 12 13 14 15 16 PLACER DOME INC. 7	RECOV 1-MOQ MUX ROCK 5 MM (L 100) DEFINED MINERAL FIELDS PPENS FIELDS 18 19/20 21 22/23 24 25 26 27 43 44 45 57 58 59 60 62 63 64 65 60 70 71 72 73 76 77 78 79 8 18 19/20 21 22 22 22 22 22 22 22 22 23 24 25 65 78 77
	A 0 0 DESCRIPTIVE REMARKS	18 19 20 21 22 23 24 25 26 RECOV SAMPLE No.
	Aolo DESCRIPTIVE REMARKS 8 8 09 9 2.50 This is basically the same as L Principle interval: 35.20 m - 83.65 m R except that fsp phenocrysts up to	92PP66MDNZ1244 0=0* B= QC 34R3 2234<1 C) C) 31mm may be found, SE occurs as bright green spots.
	9 M 8809 8896 This is just a highly fractured	$98 FR Xm_{c} W = 1255 0 = 0 * B = Qc$
	R R 88.09m - 92.50 m.	28R3 3346<1 <)
	0 D 8 8 0 9 9 2 5 0	9 2 X I I I I I I I I I I I I I I I I I I
		43R3
	N 91177 9250 Upper contact & So° to C/A. About 2 30 To of this nested interval is	645HXMOM211230=0*B=QC
X	R intensely sheared. Due to the intensely is the upper contact.	
F. O. H.		
	A 00 1 457 757	
	A 00 1 7 5 7 10 5 7 A 00 1 10 5 7 13 5 7	
	A 0 0 1 13 5 7 16 57 A 0 0 1 16 5 7 19 57	B / / / O B / / / O B / / / D
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	UNIQUE 10 OF PROJECT DRILL HOLE/TRAVER	SE SIZE OF CORE LOGGED BY DI	RILLER (S) NONTH YEAR TYPE TIME-HAS SURVEYED SYSTEM GRID AZIMUTH
GRAPHIC LOG	UNIQUE 10 OF PROJECT DRILL HOLE/T RAVER DE N 6 B 0 2 0 1 B A LL DD 5 - 14 DRILL COORD SYSTEM UNITS	ETH/LENGTH AZM	$\frac{1}{1} \frac{1}{1} \frac{1}$
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R T F			
O B B ALLEPATION	Монион и ком то 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Р1	ACED DONE INO	RECOV TINODIWA ROCK STM LINO DEFINED MINERAL FIELDS OPEN
С U A K C C T T		ACER DOME INC.	18 19 20 21 22 23 24 25 26 27 43 44 45 46 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 72 75 76 77 78 79 80
		DRILL LOG FORM 4	
TUUO YRR P		MBG - JULY 90	
PEEEEE ESSN	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		18 19 20 21 22 23 24 25 26
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2. On AUMM cord right adjust names so that R.H. 4 letters make sense. They will be stats header names.

5 - If additional "5" or "A" cards are required use another header form and cross out unwanted partiens or enter "S" or "A" cords on terpunched portion on form 2

Units of distance on 5000 card are for survey coordinates, those on ISCL card are for downhole distances. ine X x was field but X X in indometion lower time then becames corresponding How and amount field

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P Hs7 827 Colour is mottled dark green to 138 KXØVBD0000 Q+Q10* 5 L white. Fragments are made up of 0R2 2123Q)Q+ 6 Mon2 (~ 80%) \$ ANDS - fine graved (+ 20%) The made is an inclusion of the second of the sec	mG
A LAND AND AND AND AND AND AND AND AND AND	D (
1 Anno (2 80%) & ANDS - fine grained (2 207). The monte is par phyritic & can fsp phenocrysts (2-5, mm), Both MNDS & MONE are locally included and the	tains 19-40 17
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	IDEN6B02018BAUD BAUD DDS ISIZE OF CORE LOGGED BY DI IDEN6B02018BAUD BAUD DDS ISIZE MQML SEPT90JFFB DRILL COORD SYSTEM UNITS M/F TOTAL DEPTH/LENGTH AZM VANG S I MT 740670900 0400 000000	NILLER (S) MONJH YEAR TYPE TIME-HRS SURVEYED SYSTEM GRID AZIMUTH
	IDEN6B0201BAUL DDS-IS MQML SEPT 90JFB	SEP 90 300 JFB IS EASTING ELEVATION
GRAPHIC LOG	5 74.67090.00-60.00	1-1313.001-11192.00111278.00
S MINERALIZATION R T F ALTERATION	HORIZON FROM TO	RECOV IT MODING ROCK VEINS DEFINED MINERAL FIELDS OPEN
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T U U U O Y R R U P	MBG - JULY 90	RQD CS FRACTURES CB LISICY PY CP POMOCAXXYY
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	L because it is silicified & the texture	9R2 224 < 29391 < *
	R is generally completely washed out. The	only section where the nock desture can be early seen
	9 R is e 11.14m to 11.30m. Small lithic	Fragmenta occur in a fine grained, dark green mathin.
	R Most of this interval is a light gree	y, bleached colour. The bleached portions have a completely
	R aphanitic appearance. Core is non-m	aquetic Rack is highly freeturid & any tohid pieces of are
	R are crackle fractured. Fracture angles	
	10 R 827 978 Intense chearing. Unable to obtain.	orientations.
		13R2
	11 R 1083 11150 High concentration of py (10% over	chil, acquiring in large blebs).
	R 11147 11158 Moderate shearing. Unable to obtain	orizen thatiant.
	D 1115 1404	
		6 R Z
	12 0 1404 1488	80 X 1
		33 R 1
	N 1/256 11280 Again, rock is hard to identify due	65EQXM0NZ0000
	L to texture being washed out. A ghost	0R2 5448 $(2Q2Q2)$ $(*)$
		adparent. The rock colour is white, some is highly fractured.
	R 1311 1326 Moderate shearing. Unable to obtain a	rientations.
	P 1404 1488 Same as nested interval: 12.56 m -	80EQXMOMZ0000 RI
	12.80 m, except that colour is more	33R1 3436 <2 P4 <·
	14 R of a whiteish - grey. Non - magnetic	
X X M		
	P 14188 115137 Same as principle interval: 8.27m-	56FRXAMLT0000 R)0) 0)
K I K I M	4 14.04 m except that the texture	10R2 4336R + < 1 R + 1
	15 has not been bleached away. Upper	contract of 35 of d/4. Non + magine tite
	R 11499 115124 Weak shear & rubble zone. Unable	te obtain grightations
	<u> </u>	86 X
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			UNIQUE 10 OF PROJECT ORILL HOLE/TRAVERSE SIZE OF CORE LOGGEO BY	DRILLER (S) MONTH YEAR TYPE TIME-HAS SURVEYED SYSTEM GRID AZIMUTH					
	GR	APHIC LOG	IDE N 6 BO 2 O1 BALL DD 5 T 5 M QWL 5 F 7 9 0 7 F B ORILL COORD SYSTEM UNITS M/F TOTAL DEPTH/LENGTH AZM V ANG	NORTHING EASTING ELEVATION					
*	STRUCTUR	ALTERALIZATION R ALTERATION A C U U U U U U U U U U U U U	MCR120N F & O M TO 1 2 3 4 5 6 7 8 9 100 11 12 13 14 15 16 7 NUL DRILL LOG FORM 4 DRILL LOG FORM 4 MEG - JULY 90	RECOV 1.000 Mix ROCK 3.1 M L 101 DEFINED MINERAL FIELDS Prefix 18 19/20 21/22 23 24 25 26 27 43 44 445 45 59 60 61 62 63 64 65 66 69 70 71 72 73 76 77 78 79 6 1 </th					
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	×		P 5151 5532 This is simply a more sheared L version of principle interval: 38.66- R 51.51 n. About 20 % of the core	$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
	X		R orientations were measured: 0,5,2	$\frac{1}{2} \frac{1}{2}	4	(24 X 17 X 17		R 5240 5269 Intense shear (90% gouge). Unable D 51051 5366 R 5351 5362 Intense shear (90% gouge). Unable	to obtain prientetion.
			R 5351 5 382 Intense shear (90% gouge), Unable D 5366 5532 L	to dbtmin orientation. 86 X 10R2					
	X X 4 X 1't								
			P 5532 5721 Glour is mottled dark green to light Green to white, 20% for pheno crysts R (2-12 mm) exist in an aphanitic, d	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	A		R (2-12 mm) exist in an aphanitic, d CA. The other 2 are apple green (se	art green instruct of there Ispe are white & alt proson to					

GRAPHI	C 1 O C	UNIQUE ID OF PROJECT	ORILL HOLE/TRAVERSE SIZE OF CORE LOGGED BY DDS-155 MQWLSEPT905FB M/F TOTAL DEPTH/LENGTH AZM VANG MT 7406709000000000000000000000000000000000	DRILLER (S) MONTH YEAR TYPE TIME-HRS SURVEYED	1911
GRAPHI			MT 74.67090.00-60.00	-1313-0	2 - 11/1912.00 111278.00
S R T F O R R	MINERALIZATION ALTERATION	HORIZON FROM TO		RECOV T-MODMIN ROCK VEINS	
C U A		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	PLACER DOME INC.	18 19 20 21 22 23 24 25 26 27 43 44 45 46 57 58 5	960 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79
T T	89	ZONE	DRILL LOG FORM 4	RQD CS FRACTURES	ECLEPPPICIPXMIQZXXY
	P P		MBG - JULY 90	RQD C S FRACTURES S IM 1 1 TOT	IISIICY PYCPPOMOCAXXY
PEE ESS	E S S S S N	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 A 0 0	DESCRIPTIVE REMARKS	18 19 20 21 22 23 24 25 26 RECOV SAMPLE No.	
			Minor CA gashes are present in ad	dition to the midraveins.	Nan-manetic. Ore it highly
		R	fractured.		
AIX		N 5532 5593	shearing is quite weak.		210) D·
·	S S	7055325726		54R2 3436P2	<)
A Y		5532 5726		85 X	
;- - / € -		0 5726 5921		26R3	<u>┽╃┼╉┼╂┽┽┟╄┼╉┼╏┼┨┥</u>
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		9 P 5921 6187	Same as principle interval: 51.51m	- 695HXMONZ1133 0	
K n			55.32 m.	8R2 2235P2	
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X 4'X					
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	6	2 9 6187 6522	Essentially the same rock as		$D \star D$
AL I		R	principle interval: 55.32-59.21 m.	48R4 3224P1<	
			Non-magnetic. Core is highly frac	tered, but not as highly	Arackured as the model
AL X		┠╩┼┿┼┼┼┼╃┽┽┤╎┼┥╃┼┥	higher up in this hole.	<u>┦</u> <u>┥</u> ┥┥┥┥┥┥┥╷╷╷╷╷╷	
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GRAPHIC LOG	UNIQUE 100F PROJECT ORILL HOLE/TRAVERSE SIZE OF CORE LOCGEO BY D IDEN6 BO 2101 BALL DDS-15 MQWL SEPTI90 JFB DRILL COORD SYSTEM UNITS - M/F TOTAL DEPTH/LENGTH AZM V ANG S MT 74 67 090000000000000000000000000000000000	DRILLER (5) MON7H YEAR TYPE TIME-NHS SURVEYED SYSTEM GRID AZIMUTH PAGE OF I
R T F O R R C U A K C C T T U U O Y R R P	НОВІДОМ F.R.O.M. T.O. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 7 10 11 10 11 11 13 14 15 16 7 10 12	RECOV 1-MOQMIX ROCK 3 VEINS M. L. Tor DEFINED MINERAL FIELDS Precos 16 19/20 21/22/23 24/25 26/27 43/44 44/54/65 59/60 61/62/63 64/65/66 66/70 71 72 73/74 75 76 77 78
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APPENDIX # 2

Sinter a sure

ASSAY RESULT TABLES (DRILL CORE AND SLUDGE SAMPLES)

DDS-12 (DRILL CORE)

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DDS-13 (DRILL CORE)

		. = = = = =	=====		
Sample	From	To	Width	Au	Cu
number	(m)	(m)	(m)	(ppb)	(ppm)
======			====	======	=====
B1084	4.57	7.57	3.00	30	16
B1085	7.57	10.57	3.00	80	15
B1086	10.57	13.57	3.00	10	9
B1087	13.57	16.57	3.00	20	10
B1088	16.57	19.57	3.00	15	10
B1089	19.57	20.68	1.11	50	16
B1090	20.68	21.97	1.29	-55	15
B1091	21.97	24.29	2.32	65	28
B1092	24.29	26.57	2.28	27.5	33
B1093	26.57	28.85	2.28	30	27
B1094	28.85	31.85	3.00	35	20
B1095	31.85	34.85	3.00	15	8
B1096	34.85	37.85	3.00	20	6
B1097	37.85	40.85	3.00	20	8
B1098	40.85	43.85	3.00	15	14
B1099	43.85	46.85	3.00	20	7
B1100	46.85	49.85	3.00	5	11
B1101	49.85	52.85	3.00	< 5	10
B1102	52.85	54.41	1.56	10	22
B1103	54.41	57.41	3.00	10	190
B1104	57.41	60.41	3.00	15	104
B1105	60.41	63.41	3.00	15	31
B1106	63.41	65.68	2.27	30	53

DDS-14 (DRILL CORE)

Sample	From	То	Width	Au	Cu	
number	(m)	(m)	(m)	(ppb)	(ppm)	
	= = = = = =	=====	=====		====	
B 1107	4.57	7.57	3.00	< 5	107	
B1108	7.57	10.57	3.00	15	136	
B1109	10.57	13.57	3.00	200	176	
B 1110	13.57	16.57	3.00	10	105	
B 1111	16.57	19.57	3.00	75	139	
B1112	19.57	22.57	3.00	215	200	
B1113	22.57	25.57	3.00	710	219	
B1114	25.57	27.43	1.86	25	93	
B1115	27.43	30.43	3.00	< 5	49	
B1116	30.43	33.43	3.00	35	300	
B 1117	33.43	35.20	1.77	< 5	58	
B 1118	35.20	38.20	3.00	< 5	12	
B1119	38.20	41.20	3.00	< 5	11	
B1120	41.20	44.20	3.00	< 5	8	
B1121	44.20	47.20	3.00	< 5	26	
B1122	47.20	50.20	3.00	30	38	
B1123	50.20	53.20	3.00	15	79	
B1124	53.20	56.20	3.00	< 5	119.5	
B1125	56.20	59.20	3.00	15	101	
B1126	59.20	62.20	3.00	< 5	84	
B1127	62.20	65.20	3.00	< 5	125	
B1128	65.20	68.20	3.00	< 5	44	
B1129	68.20	71.20	3.00	< 5	20	
B1130	71.20	74.20	3.00	< 5	154	
B1131	74.20	77.20	3.00	10	72	
B1132	77.20	80.20	3.00	5	58	
B1133	80.20	83.20	3.00	< 5	98.5	
B1134	83.20	86.20	3.00	< 5	18	
B1135	86.20	89.20	3.00	< 5	102	
B1136	89.20	92.50	3.30	< 5	105	
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DDS-15 (DRILL CORE)

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	From	То	Width	Au	Cu		
number	(m)	(m)	(m)	(ppb)	(ppm)		
		<i></i> = = =	======	=====	=====		
B1137	4.57	6.42	1.85	< 5	240		
B1138	6.42	8.27	1.85	< 5	210		
B1139	8.27	11.15	2.88	15	240		
B1140	11.15	14.04	2.89	< 5	116		
B 1141	14.04	15.37	1.33	< 5	141		
B1142	15.37	17.57	2.20	20	167		
B1143	17.57	20.57	3.00	20	260		
B 1144	20.57	23.57	3.00	10	187		
B1145	23.57	26.57	3.00	5	183		
B1146	26.57	28.74	2.17	< 5	150		
B1147	28.74	31.74	3.00	15	140		
B1148	31.74	34.74	3.00	5	19		
B1149	34.74	36.66	1.92	< 5	42		
B1150	36.66	38.66	2.00	< 5	44		
B1151	38.66	41.66	3.00	7	28.5		
B1152	41.66	44.66	3.00	< 5	10		
B1153	44.66	47.66	3.00	10	40		
B1154	47.66	50.66	3.00	5	23		
B1155	50.66	53.66	3.00	10	20		
B1156	53.66	55.32	1.66	< 5	66		
B1157	55.32	57.26	1.94	< 5	9		
B1158	57.26	59.21	1.95	< 5	9		
B1159	59.21	61.87	2.66	30	90		
B 1160	61.87	64.87	3.00	< 5	9		
B1161	64.87	67.87	3.00	5	7		
B1162	67.87	70.87	3.00	< 5	4		
B1163	70.87	72.77	1.90	125	8		
B1164	72.77	74.67	1.90	< 5	7.5		
•			•				

DDS-12 (SLUDGE SAMPLES)

Sample	From	То	Width	Au	Cu			
number	(m)	(m)	(m)	(ppb)	(ppm)			
======	= = = = = = =	====	====:	= = = = = =	=====			
B801	18.90	21.94	3.04	190	167			
B802	21.94	24.69	2.75	150	287			
B803	24.69	27.58	2.89	80	176			
B804	27.58	30.63	3.05	85	224			
B805	31.09	34.14	3.05	90	371			
B806	34.14	36.88	2.74	250	225			
B807	36.88	39.62	2.74	85	127			
B808	39.62	41.76	2.14	85	128			
B809	41.76	43.28	1.52	90	110			
B810	43.28	45.72	2.44	65	118			
B811	45.72	48.77	3.05	125	164			
B812	48.77	51.81	3.04	100	158			
B813	51.81	54.86	3.05	145	160			
B814	54.86	57.91	3.05	110	113			
					•			

DDS-13 (SLUDGE SAMPLES)

Sample number	From (m)	To (m)	Width (m)	Au (ppb)	Cu (ppm)
B828	9.14	12.19	3.05	25	87
B829	12.19	15.24	3.05	15	47
B830	18.29	21.03	2.74	50	92
B831	21.33	23.65	2.32	20	76.5
B832	24.08	27.13	3.05	50	57

ASSAY RESULTS

DDS-15 (SLUDGE SAMPLES)

	Sample number	= = ; r	= = = = From (m)	==	= = = = To (m)	= =	= = = = = Width (m)		= = = = Au (ppb)	==	= = = = Cu (ppm	=)
Ī	B833		10.67		10.67		0.00		80	Ī	230	-

APPENDIX # 3

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ASSAY RESULT SHEETS (DRILL CORE AND SLUDGE SAMPLES)

)		*	
PDI GEOCH	EM SYSTEM:	Data	From:	V243 BALL	CR ISKUT
GRID	SAMPLE	E	ROJEC:	r Aul PPB	Cu PPM
104G8 104G8 104G8 104G8 104G8 104G8 104G8		B1051 B1052 B1053 B1054 B1055 B1056 B1056*	0575 0575 0575 0575 0575 0575 0575	$155 \\ 170 \\ 65 \\ 90 \\ 100 \\ 140 \\ $	29 30 15 17 16 6 6

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END OF LISTING - 7 RECORDS PRINTED Run on: 90:09:25 at 11:07:26

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PDI GEO	CHEM SYSTEM	: Data	From:	V243 BALL	CK ISKUT
· GRID	SAMPLE	:	PROJEC	r Aul PPB	Cu PPM
104G8 10468 10468 10468 10468 10468 10468	STD P1	B1057 B1058 B1059 B1060 B1061 B1062 B1063 B1064 B1065 B1065 B1065 B1067 B1068 B1069 B1070 B1071 B1072 B1073 B1074 B1075 B1076 B1077 B1078 B1077 B1078 B1077 B1078 B1077 B1078 B1077 B1083 B1083 B1083 B1083 B1083 B1083 B1083 B1083 B1085 B1086 B1087 B1088 B1089 B1090 B1092 B1092 B1092 B1093 B1094 B1095 B1098 B1099	0574 0574	$\begin{array}{c} 50\\ 90\\ 75\\ 150\\ 100\\ 50\\ 65\\ 45\\ 105\\ 90\\ 90\\ 90\\ 95\\ 80\\ 75\\ 10\\ <5\\ 10\\ <5\\ 10\\ <5\\ 10\\ <5\\ 10\\ <5\\ 10\\ <5\\ 10\\ <5\\ 10\\ <5\\ 20\\ <5\\ 10\\ 5\\ 20\\ <5\\ 10\\ 5\\ 20\\ 5\\ 50\\ 55\\ 65\\ 30\\ 25\\ 30\\ 35\\ 15\\ 20\\ 20\\ 15\\ 20\\ 300 \end{array}$	PPM 37 7 13 7 15 11 20 62 53 51 77 40 36 14 10 9 61 0 32 31 9 21 10 4 22 5 5 16 15 9 10 10 32 33 33 27 20 8 6 8 14 10 9 6 10 32 33 33 27 20 8 6 8 14 15 9 10 10 32 33 33 27 20 8 6 8 14 15 9 10 10 32 33 27 20 8 6 8 14 10 9 6 10 32 33 27 20 8 6 8 14 10 9 6 10 32 33 27 20 10 4 22 5 5 16 15 9 10 10 32 33 27 20 8 6 8 33 33 27 20 8 6 8 14 15 9 10 10 10 10 15 28 33 33 27 20 8 6 8 14 7 7 20 8 6 8 14 15 8 33 33 27 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 15 9 10 10 15 28 33 37 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 7 20 8 6 8 14 7 7 7 20 8 6 8 14 7 7 7 20 8 6 8 14 7 7 20 8 6 8 14 7 7 7 20 8 6 8 14 7 7 7 20 8 6 8 14 7 7 7 20 8 6 8 14 7 7 7 7 20 8 6 8 7 7 20 8 6 8 7 7 20 8 6 8 7 7 20 8 7 20 8 7 20 8 8 7 20 8 8 8 8 8 7 20 8 8 8 8 8 8 8 8 8 8 8 8 8
test	STD P1		0574 0574	315	22

END OF LISTING - 50 RECORDS PRINTED Run on: 90:09:25 at 16:30:33

PDÌ GEOCH	IEM SYSTÉM	: Data	From:	V243 BALL	CK ISKUT
GRID	SAMPLE	I	PROJEC	r Aul PPB	Cu PP M
104G8 104G8 104G8 104G8 104G8 104G8 104G8 test test	STD P1 STD AU8	B1100 B1101 B1102 B1103 B1104 B1105 B1106	0586 0586 0586 0586 0586 0586 0586 0586	5 <5 10 10 15 15 30 380	11 10 22 190 104 31 53 22

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END OF LISTING - 9 RECORDS PRINTED Run on: 90:09:25 at 11:07:26

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PDI GEOCHEM S	YSTEM: Data	From: V243	BALL	CR ISKUT
GRID SAMI	PLE P		Au1 PPB	Cu PPM
GRID SAMI 104G8 104G8 104G	B1107 B1108 B1109 B1110 B1111 B1112 B1113 B1114 B1115			PPM 107 136 176 105 139 200 219 93 49 26 300 58 12 11 8 26 38 79 120 119 101 84 125 44 20 154 72 58 98 99 18 102 105 240 210 240 116 141 168 166 260 187 183 150 140 19 42 44 29 28 10 240 210 210 210 211 84 20 20 20 20 20 20 20 20 20 20
104G8 104G8	B1157 B1158	0601 0601	<5 <5	66 9 9

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PDI GEOCHEM SYSTEM: Data From: V243 BALL CR ISKUT

GRID	SAMPLE	P	ROJECT	Au1 PPB	Cu PPM
104G8 104G8 test	STD P1	B1159 B1160	0601 0601 0601	30 <5	90 9 26
104G8 104G8 104G8 104G8 104G8		B1161 B1162 B1163 B1164 B1164*	0601 0601 0601 0601 0601	5 <5 125 <5 <5	20 7 4 8 8 7
test test	STD AU8 STD AU8		0601 0601	390 270	•

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END OF LISTING - 67 RECORDS PRINTED Run on: 90:10:05 at 16:15:51

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PDI GEOCHEM SYSTEM: Data From: V243 BALL CK ISKUT

GRID	SAMPLE	P	ROJECT	Aul PPB	Cu PPM
104G8 104G8	STD AU8	B801 B802 B803 B804 B805 B806 B807 B808 B809 B809 B810 B811 B812 B813 B814 B828 B829 B830 B831 B831 B831 B831 B832	0587 0587 0587 0587 0587 0587 0587 0587	$190 \\ 150 \\ 80 \\ 85 \\ 90 \\ 250 \\ 85 \\ 85 \\ 90 \\ 90 \\ 65 \\ 125 \\ 100 \\ 145 \\ 110 \\ 25 \\ 15 \\ 50 \\ 15 \\ 25 \\ 50 \\ 355 \\ $	167 287 176 224 371 225 127 128 107 118 164 158 160 113 87 47 92 77 76 57
test	STD P1		0587		22

END OF LISTING - 23 RECORDS PRINTED Run on: 90:10:03 at 11:16:04

,	•						
		EM SYSTEM:	Data	From:	V243 BA	LL CR	ISKUT
	GRID	SAMPLE	Ρ	ROJEC	r Aul PPE		
	104G8 104G8		B833 B833*	0600 0600	85 75		-

END	OF	LISTING	- 2	RECORDS	PRINTED	Run on:	90:10:05	at	16:15:51
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APPENDIX # 4

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ANALYSIS TECHNIQUES

GEOCHEM LABORATORY

<u>GENERAL TESTS</u>

<u>Elements</u>

Mo Cu Zn Pb Cd Ni Co Ag Mn

Procedure

- 1. Weigh 0.50 g of -80 mesh soil, sediment or -100 mesh pulverized rock into numbered 16 x 150 tests tubes. Every tenth sample should be a duplicate sample or an internal known reference standard.
- 2. Add 1 mL HNO₃ followed by 2 mL HClO₄. Samples containing carbonates may react vigorously at first, so add 1 mL HNO₃ and let stand until the reaction stops before adding 2 mL HClO₄.
- 3. Place tubes in test tube block on hot plate at 160°C. The samples will boil vigorously at first and then decrease as the HNO₃ boils away. Organic samples should be watched to see that they do not foam. If they do foam, then take the test tube out of the block and gently tap the bottom of the tube on an asbestos pad. Highly organic soils can be handled by adding the acid and letting them stand overnight.

The temperature of the hot plate should be set so that after the HNO₃ boils away (45 min \rightarrow 1 h), then the HClO₄ boils gently and refluxes down the sides of the test tube. Total digestion time is 4 hours.

- 4. Cool the sample by adding 6 mL demineralized water and immersing the test tube rack in cold water for 2 min. After cooling, bring the volume up to 10 mL, cap and shake.
- 5. Read on AA using air/acetylene flame for all elements except Mo which should be run using N₂O/acetylene flame. Background correction should be used on Pb, Cd, Ag. Turn burner head for Zn.

RAM/:ojt/M003 1990-10-18

Page 1 of 2

GEOCHEM LABORATORY

GENERAL TESTS

Standards

- All standards are made in 15% HClO4.

- Factor is 20.

	Standard Concentrate (µg/mL)	AA Setting (ppm)
Cu Zn Pb Co Ni Mn	5.0 10.0	100 200
Мо	1.0 2.0 4.0	20) add 2 mL per 20 } 100 mL 20% AlCl ₃ 80) to Mo Stds.
Cđ	0.10 0.50 1.00	2.0 10.0 20.0
Ag	0.50 0.10 0.20	1.0 2.0 4.0

Samples giving a reading above the high standard are diluted 1 to 10 with 15% $HClO_4$ and re-analyzed.

Wavelengths

Mo	313.2 nm
Cu	324.7
Zn	213.8
Pb	283.3
Cđ	228.0
Ni	232.0
Co	240.7
Mn	279.5
Ag	328.0

RAM/:ojt/M003 1990-10-18

Page 2 of 2

GEOCHEM LABORATORY

STANDARD PROCEDURE FOR SAMPLES PREPARATION

<u>Soils</u>

- 1. Dry sample at temperature <120°F.
- 2. Sieve sample to -80 mesh.
- 3. Keep -80 mesh. Discard +80 mesh.

<u>Sediments</u>

- 1. Dry sample at temperature <120°F.
- 2. Sieve sample to -80 mesh.
- 3. Seive +80 reject to -20 mesh.
- 4. Keep -80 mesh. Keep +80 -20 mesh. Discard +20 mesh.

Rocks

Small_Rocks (<500 g)

- 1. Jaw crush dry sample in jaw crusher (4") to 3/8".
- 2. Split sample in a riffle if necessary to approximately 200-250 g.
- 3. Pulverize for 2 min in a ring pulverizer, (-100 mesh).
- 4. Roll the sample at least 25 times.

Large Rocks (>500 g) & Drill Core

1. Jaw crush dry sample in large jaw crusher (6") to 1/2".

- 2. Cone crush sample to 1/4".
- 3. Split sample in a riffle to 250 g. Save reject material.
- 4. Pulverize split for 2 min.
- 5. Roll sample at least 25 times.

RAM/:ojt/M002 1990-10-17 A president contraction of the

GEOCHEM LABORATORY

<u>GEOCHEM GOLD TESTS</u>

Procedure

- 1. Weigh 10.0 g sample into a Coors 07 crucible.
- 2. Heat in muffle furnace for 4 h @ 600°C.
- 3. Cool, transfer to 150 mL glass beaker and add 30 mL Aqua Regia (3 parts HCl, 2 parts H₂O, 1 part HNO₃).
- 4. Digest at just off the boil for 2 hours.
- 5. Cool, and bulk up to 110 mL mark on beaker.
- 6. Stir and leave overnight to settle.
- 7. Decant 50 mL of sample solution into 25 x 200 mm screw cap test tube.
- 8. Add 7 mL MIBK, cap and turn tube upside down and back at least 25 times.
- 9. Read organic layer on A.A.

Standards

1. In 250 mL separatory funnel add 10 mL H₂O, 1 mL HCl, 2 drops of HNO₃ and the following amounts of Au:

0.1 mL of 1000 μ g/mL Au stock solution = 1000 ppb 0.2 mL of 1000 μ g/mL Au stock solution = 2000 ppb 0.4 mL of 1000 μ g/mL Au stock solution = 4000 ppb

- 2. Add 100 mL MIBK and shake for 2 min.
- 3. Drain aqueous layer.
- 4. Use saturated MIBK for blank.
- 5. Set 1000 ppb std on reading of 200 and multiply readings by 5. Detection limit is 5 ppb.
- 6. For higher samples, standards can be made in 30% aqua and the remaining half of the original sample solution can be run in the aqueous phase.

RAM/:ojt/M001 1990-10-17

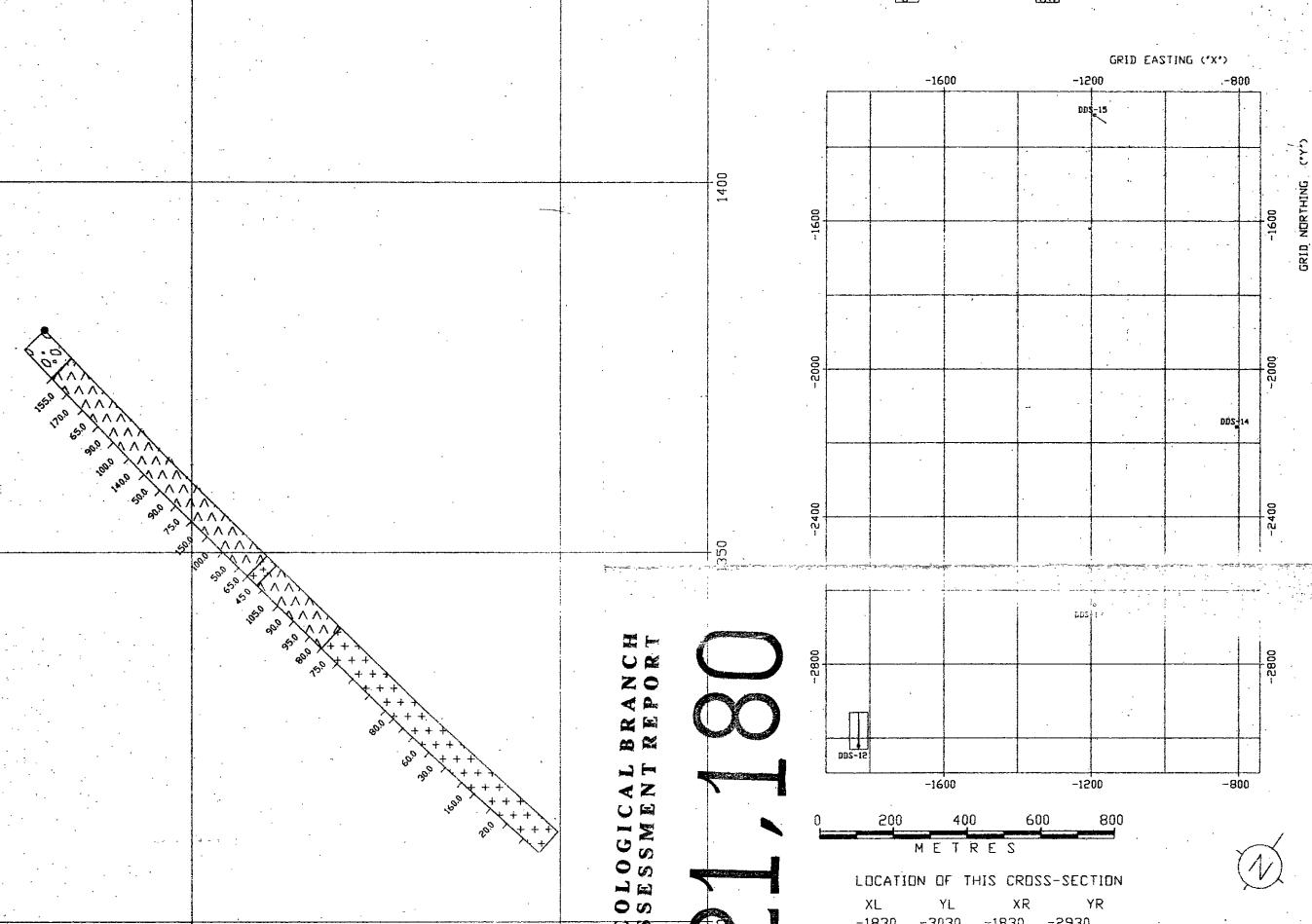
Page 1 of 1



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ROCKTYPE SYMBOLS



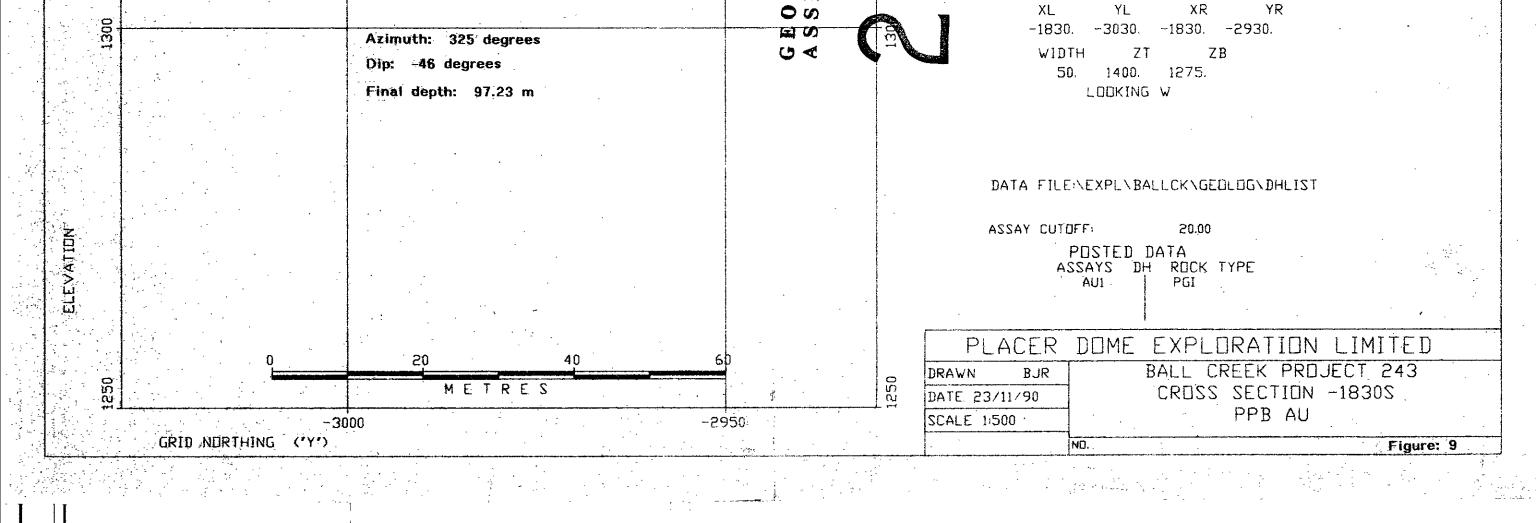
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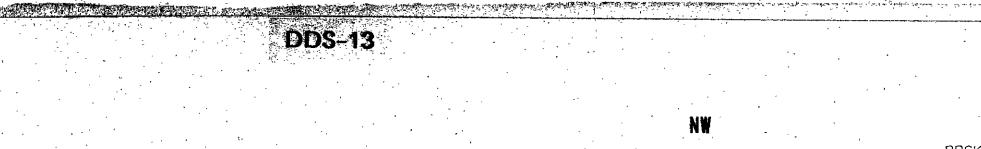
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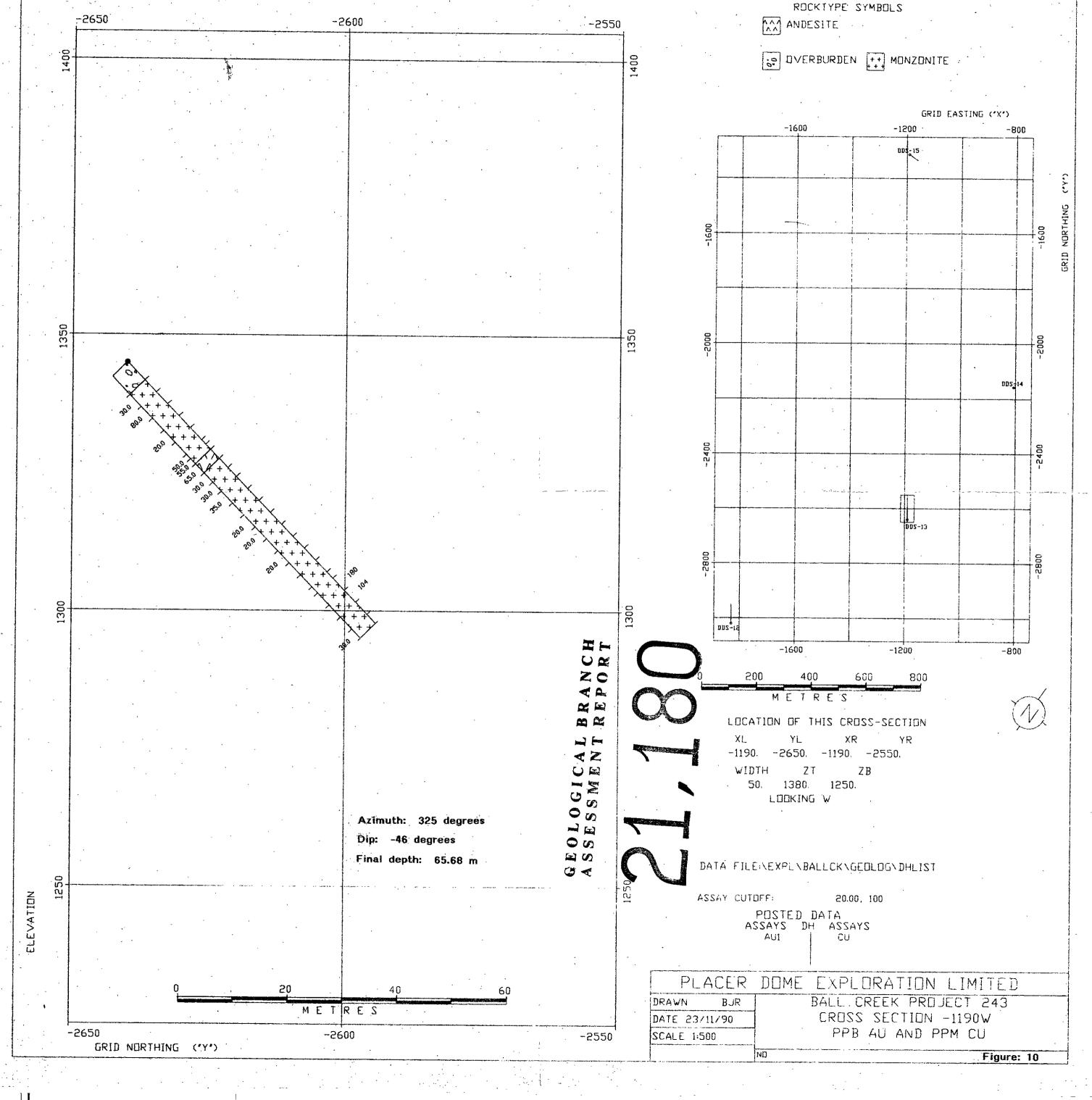
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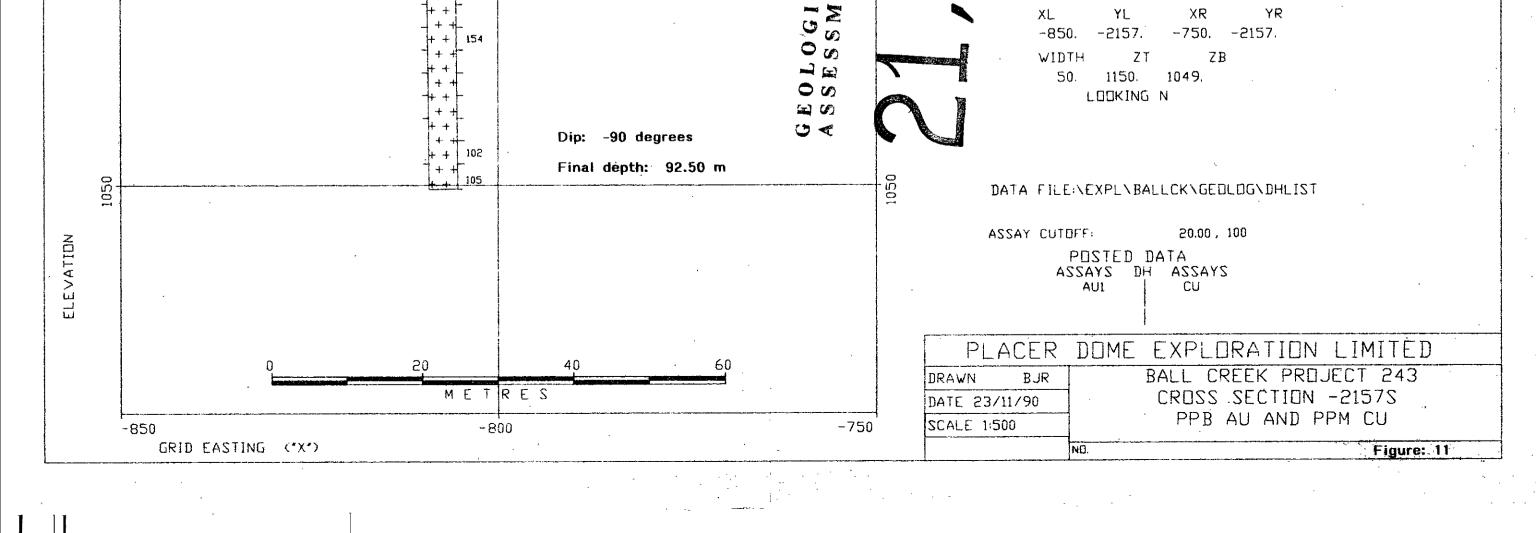
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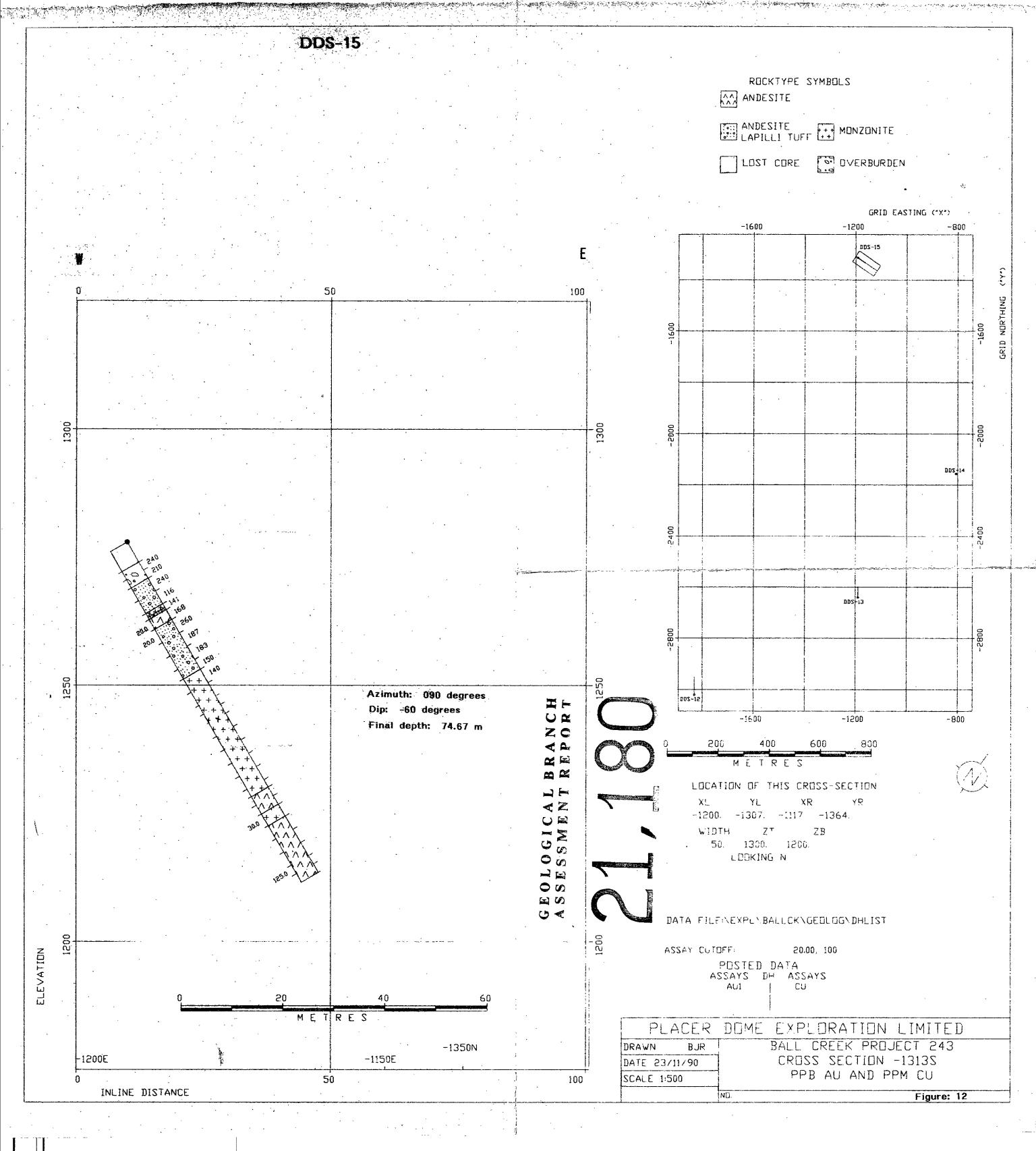
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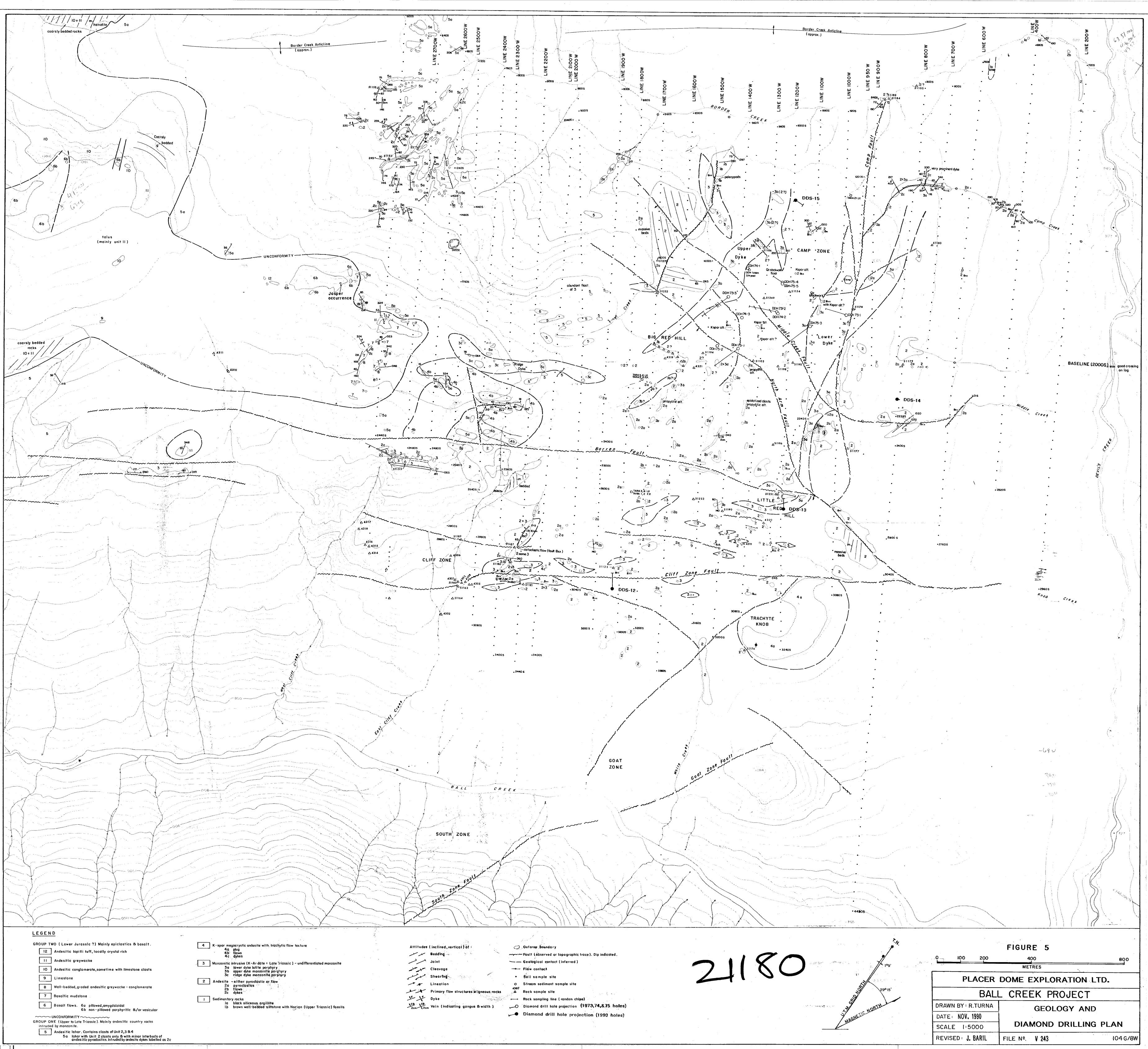
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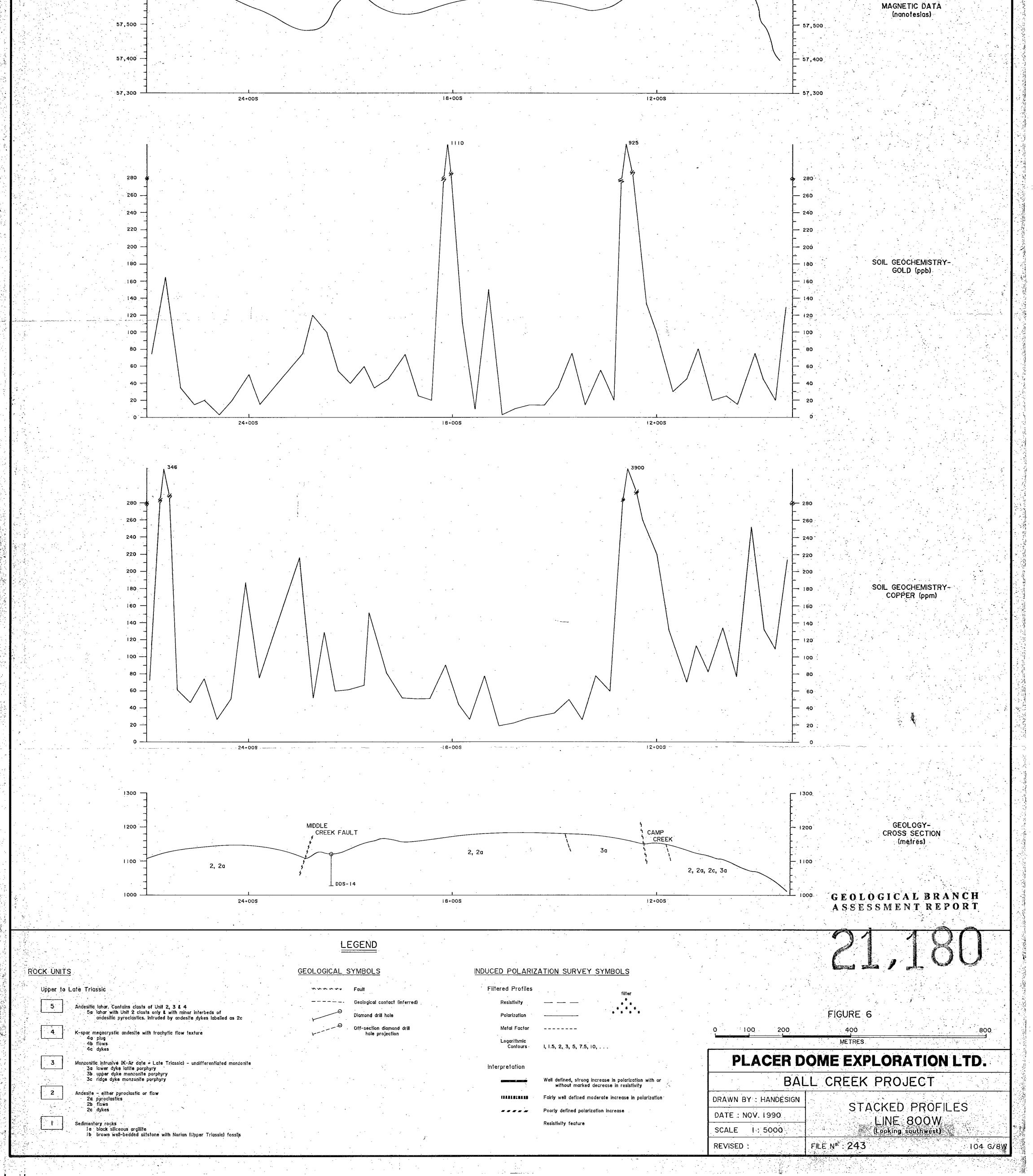
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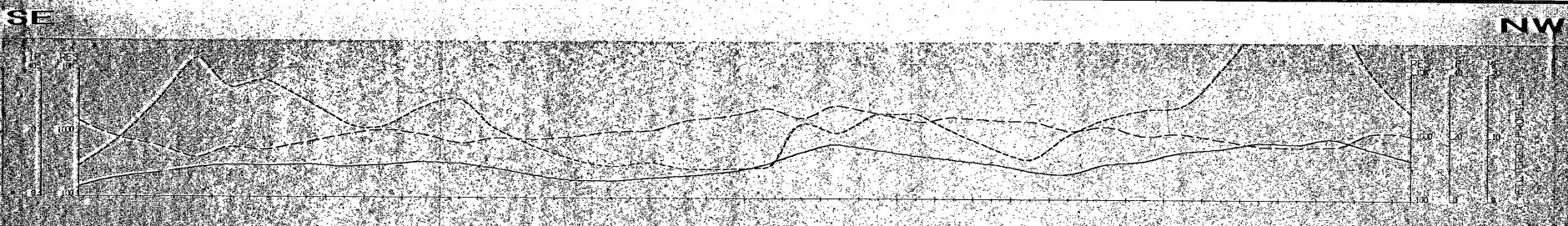
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INDUCED POLARIZATION SURVEY





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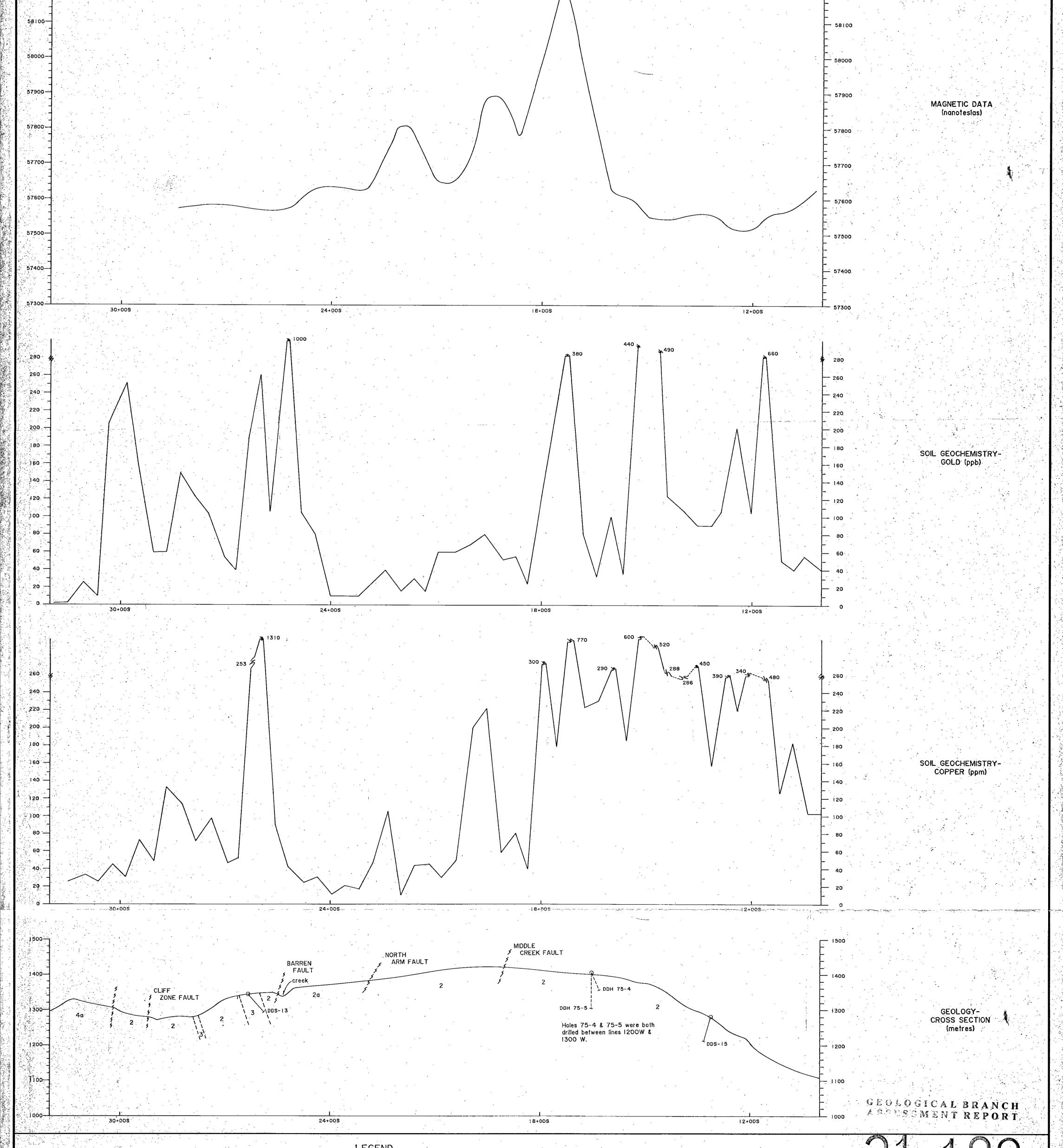
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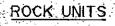
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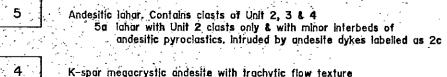


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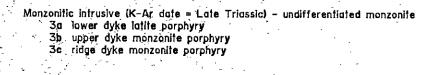
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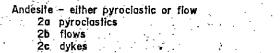
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Upper to Late Triassic



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la black siliceous arglillte brown well-bedded siltstone with Norian (Upper Triassic) fossils

LEGEND

GEOLOGICAL SYMBOLS

www.www Fault

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_Ð Off-section diamond drill hole projection

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INDUCED POLARIZATION SURVEY SYMBOLS Filtered Profiles filter ¥ Resistivity ** *** *** Polarization Metal Factor -----Logarithmic Contours l, 1.5, 2, 3, 5, 7.5, 10, . . . Interpretation

Well defined, strong increase in polarization with or without marked decrease in resistivity

Fairly well defined moderate increase in polarization IEFEERDES ED

Poorly defined polarization increase ----

Resistivity feature

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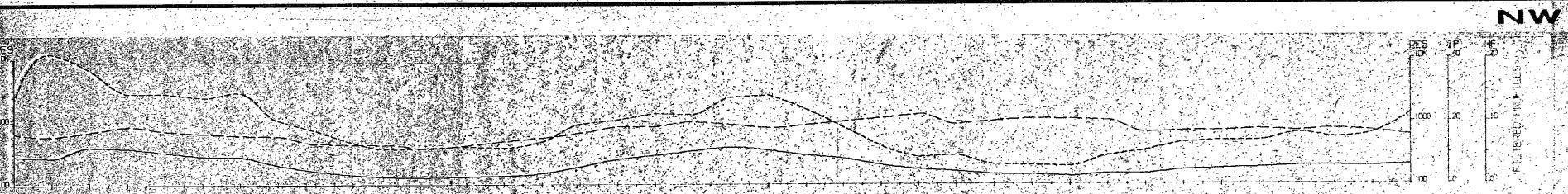
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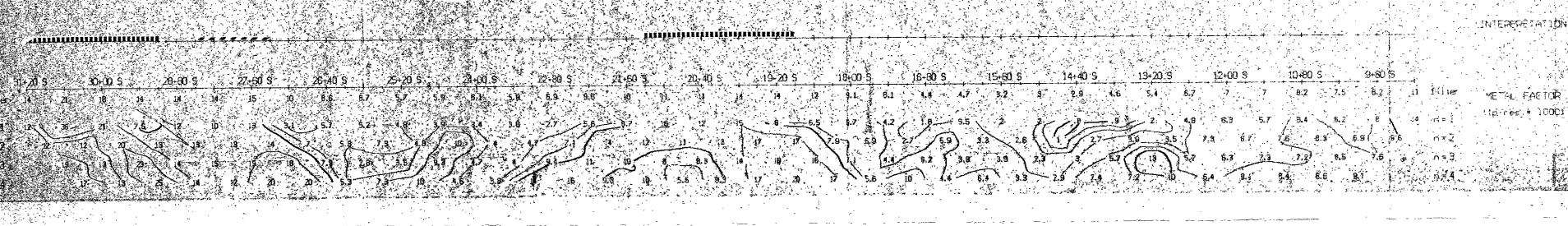
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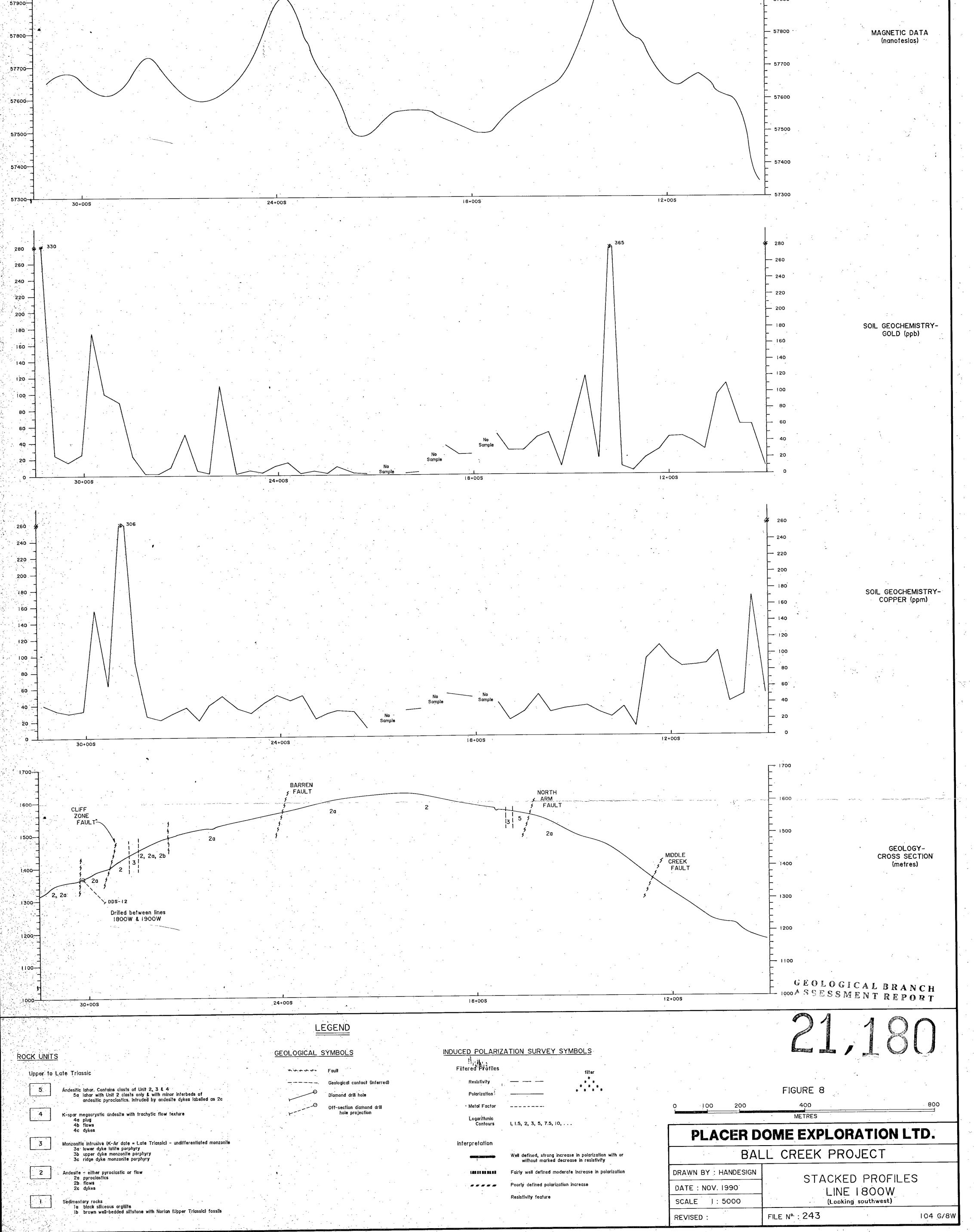
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