



TITLE OF REPORT [type of survey(s)] **DRILLING - PBR 2.94** TOTAL COST **\$15,081.00**

AUTHOR(S) **Phil D. de Souza, P.Eng.** SIGNATURE(S)

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) **CBK94-1200008-0001-M42 (October 1993)** YEAR OF WORK **1994**

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) **Event Number: 3061977**
Recorded Nov.8 1994

PROPERTY NAME **GALLOWAI/BUL RIVER GROUP**
CLAIM NAME(S) (on which work was done) **STEEPLES GROUP #2B (R.H. Stanfield)**
Steeple's Group #2B comprising five 20 unit claims:
Steeple's #12, Steeple's #14, Steeple's #16, Steeple's #18 and Steeple's #19

COMMODITIES SOUGHT **Copper, Silver, Gold and Cadmium**

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN **82 G NW - 2**
Fort Steele **82G11 W**

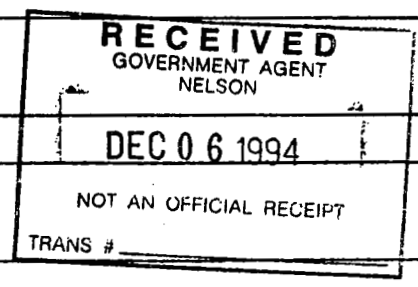
MINING DIVISION _____ NTS _____
LATITUDE **49° 30' 15"** LONGITUDE **115° 23' 07"** (at centre of work)

OWNER(S) **R. H. Stanfield**
1) _____ 2) _____

MAILING ADDRESS **#350 - 4723 1st Street S.W.,**
Calgary, Alberta, T2G 0A1
(403) 287 3800

OPERATOR(S) [who paid for the work] **R. H. Stanfield**
1) _____ 2) _____

MAILING ADDRESS **#305 - 4723 1st Street**
Calgary, Alberta, T2G 4Y8
(403) 287 3800



PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Sequence of Copper, Silver, Gold and associated metals in veins in shear envelopes striking generally east-west on the southern facing slopes of the Steeple's Range east of Cranbrook in the Fort Steele Mining Division of British Columbia. Vein systems are hosted in banded argillites of the precambrian Aldridge sequence. Significant overburden depths prevent easy identification of faults and dykes (Moyie) known to intersect (be associated with) the structures. Diamond Drilling requires Rotary/Percussive installed Casing.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS **See References in Report**

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CONTENTS

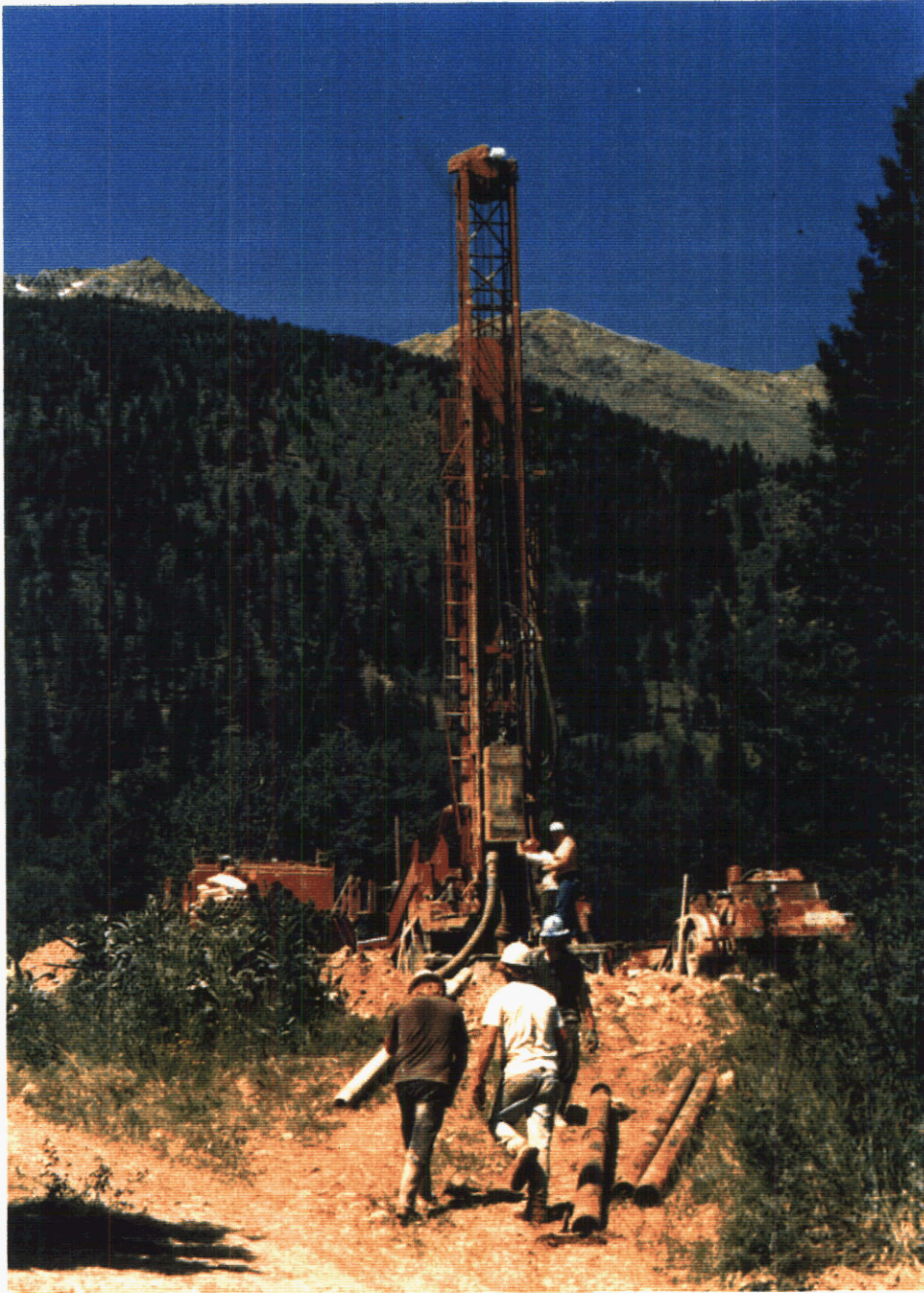
	Page
1. Introduction	1 /
2. Location	1 /
3. Physiography	1 /
4. Previous Work	2 /
5. Geology	2 /
6. Objectives	3 /
7. Logs, Lithology and Structure - Rotary Percussion PBR 2.94	4 /
8. Results and Conclusions	4 /
9. Statement of Costs	5 /
References - on company file	7 /
Certificate ✓	

FIGURES

Figure 1 ...	Location and Claim Area	after page	1 /
Figure 2 ...	Tectonic Domains showing Steeples Group 2B		1 /
Figure 3 ...	Bul River Area Geology		2 /
Figure 4 ...	Gallowai Bul River Mine - Plan		3 /
Figure 5 ...	Longitudinal Section - Overburden Profile		4 /

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

23,632



INGERSOL RAND TH60 ROTARY/PERCUSSION UNIT AND ANCILLARY EQUIPMENT AT SITE PBR 2.94. NOTE PIPE DIAMETER AND EXTRA HELPERS REQUIRED FOR PIPE HANDLING.

1. Introduction.

Rotary Percussion Drill Hole PBR 2.94 was commenced on July 6, 1994 and terminated in Aldridge Argillite on July 17, 1994 utilising a Truck Mounted deep hole rig supplied by Schmidt Drilling of Tees, Alberta. The hole was collared at an elevation of 971.25 metres (3,186.53 ft) above mean sea level at Mine Site Grid Coordinates of 4,034.4N, 3,816.6E (metric), [13,236.2N, 12,521.5E imperial] which corresponds to 49° 30' 15" North, 115° 23' 07" West approximately on NTS 82G11.

PBR 2.94 is situated on Steeples #12 of the Stanfield Steeples #2B Claim Group.

The hole is sited to the west of Burntbridge Creek on the immediate east of the access road to the Old Abe Adits approximately 420 metres (1378 ft) to the north of the power line trending westwards from the Aberfeldie Hydro Electric Station. PBR 2.94 is located on the strike extension of the deep structures being investigated by the R.H. Stanfield Group at their Gallowai Bul River Property and lies due west of the old Placid Oil open pit Copper operation that worked sub-cropping copper veins in the early 1970's.

Steeples Group #2B comprises five contiguous mineral claims viz. Steeples # 12, 14, 16, 18 and 19 within the total Stanfield Holdings in the Fort Steele Mining Division of southeast British Columbia.

2. Location.

The Stanfield Holdings are situated in the Fort Steele Mining Division of southeastern British Columbia (NTS 82G6 / NTS 82G11) astride Highway #3 between Fernie and Cranbrook and encompassing Galloway - see the preceding Figure 1. The Steeples Group #2B located within the greater Stanfield Group - see Figure 2 - sits astride a section of the southerly and south facing flank of the Steeples mountains some 4 kilometres northeast of the settlement of Bull River which itself lies at the confluence of the Bull and Kootenay Rivers.

3. Physiography.

The Steeples Claim Group #2B extends from an elevation of 883 metres immediately north of the Bull River as it widens after coursing through the gorge south of the Aberfeldie Dam and reservoir, to a maximum elevation within the Steeples Range in Steeples #14 of 2,641.09 metres. The northerly edge of Steeples #18 aligns itself along the top of the ridge overlooking the Dibble Creek Valley from the south and shares a corner Claim Post with Steeples #19 situated southeast of Hungary Peak in the central Steeples Range.

*THE
R. H. STANFIELD
GROUP*

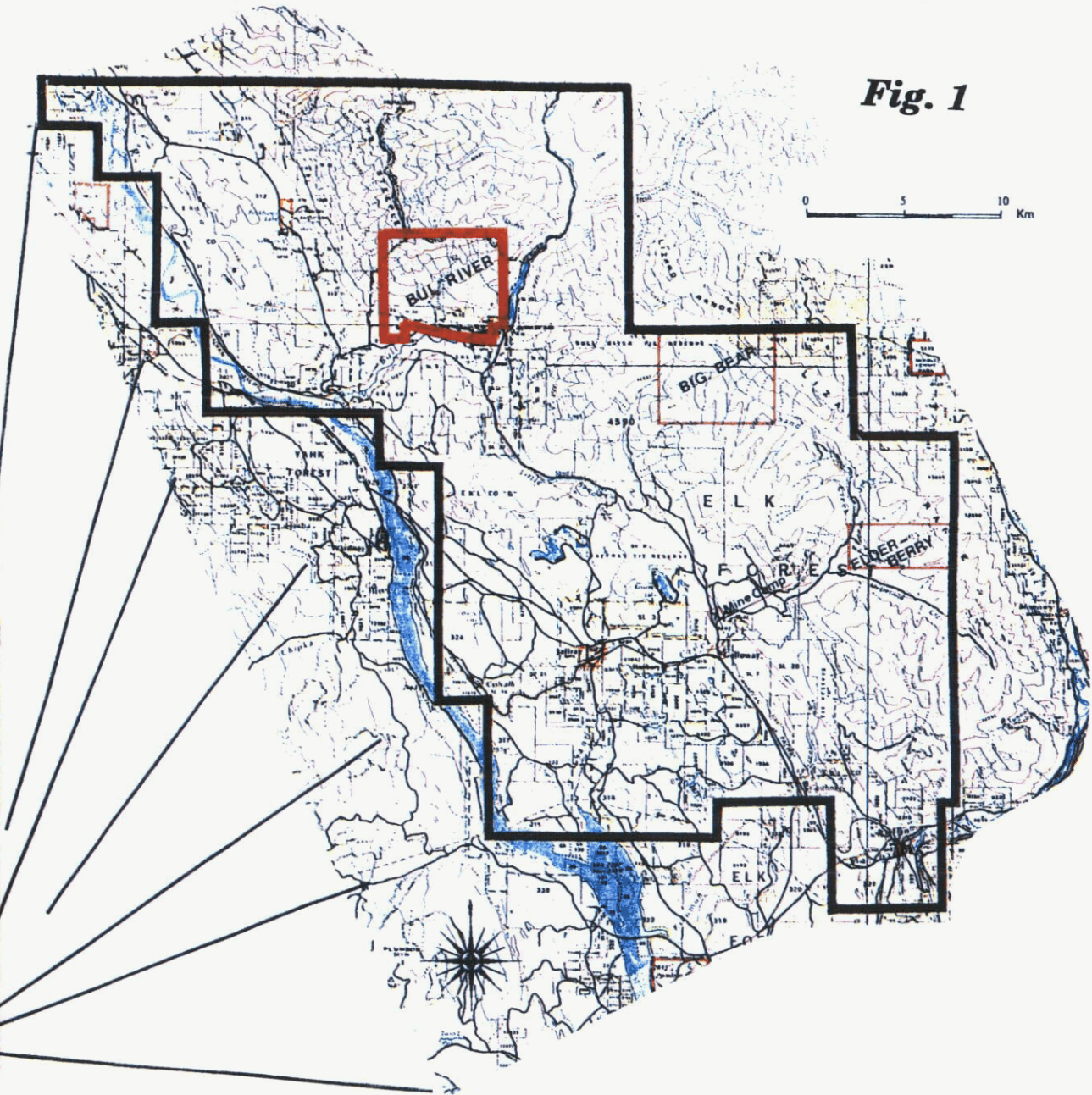
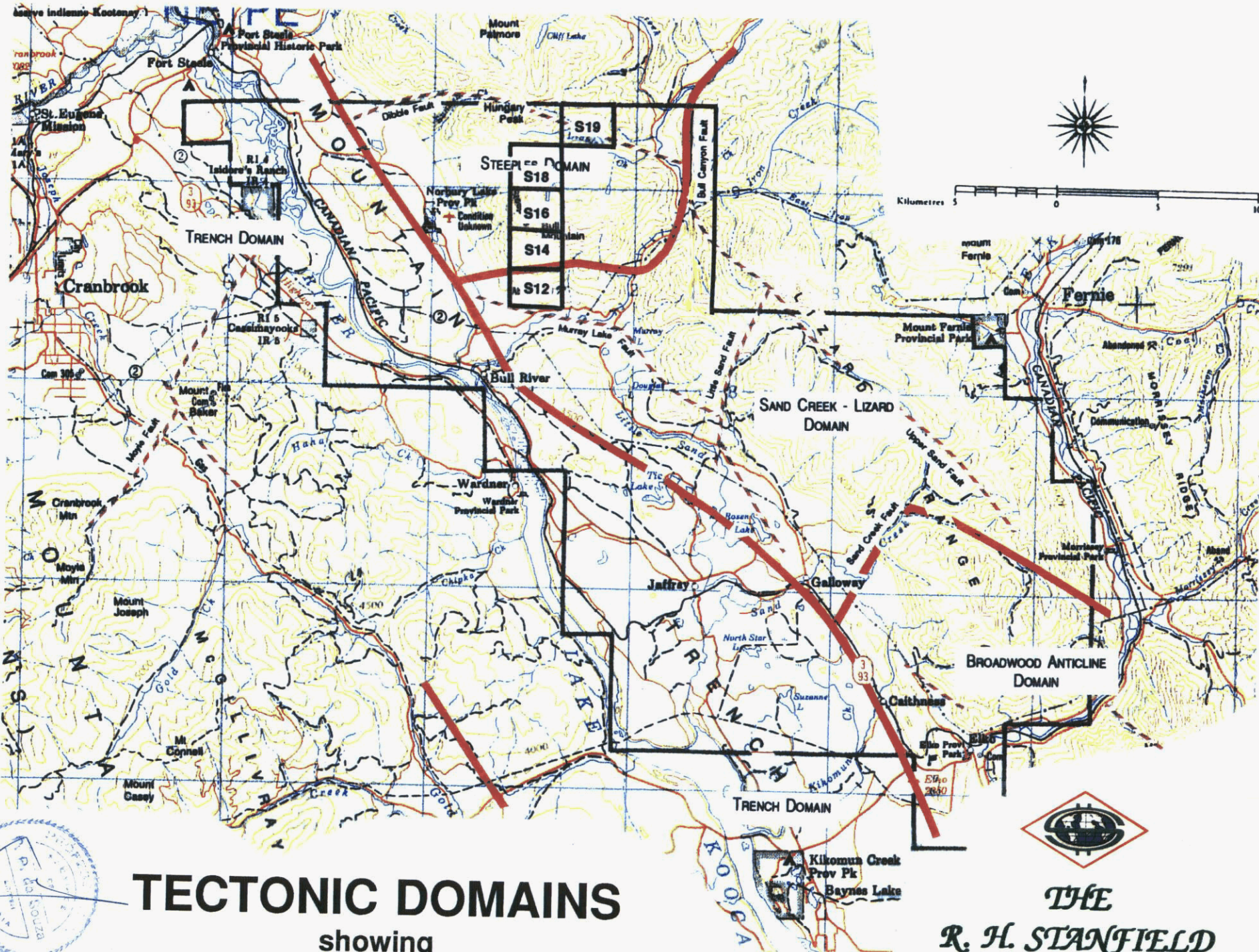


Fig. 1

LOCATION AND CLAIM AREA

Fig. 1



TECTONIC DOMAINS

showing
Steeples Group 2B

THE
R. H. STANFIELD
GROUP

Ground Water run off from the Steeples south face flows due south into the Bull River below the Aberfeldie Dam west of the Bull River Gorge while ground water from Steeples 16, 18 and 19 courses eastward via the Dibble system into Bull River above the Aberfeldie reservoir.

4. Previous Work.

The R.H. Stanfield Group has drilled 35,821.14 metres (117,523.43 ft) of Diamond programme since 1982 at the Gallowai Bul River property. This drilling includes 1,573.37 (5,161 ft) of hole advanced by Rotary/Percussion machine to set casing in deep overburden. Additionally, an airborne survey (Magnetometer G-803) through Apex Airborne Surveys Ltd., in 1982 has recently been augmented by two multi-array surveys by Dighem to better define targets in the Bull River Area.

Previous open pitting was conducted by Placid Oil in the early 1970's at their Bull River Copper Mine. Earlier exploration incorporating adit mining at both the Bull River and Old Abe areas (also on Steeples Group #2B) is on record through Annual Reports to the Minister of Energy Mines and Petroleum Resources, British Columbia.

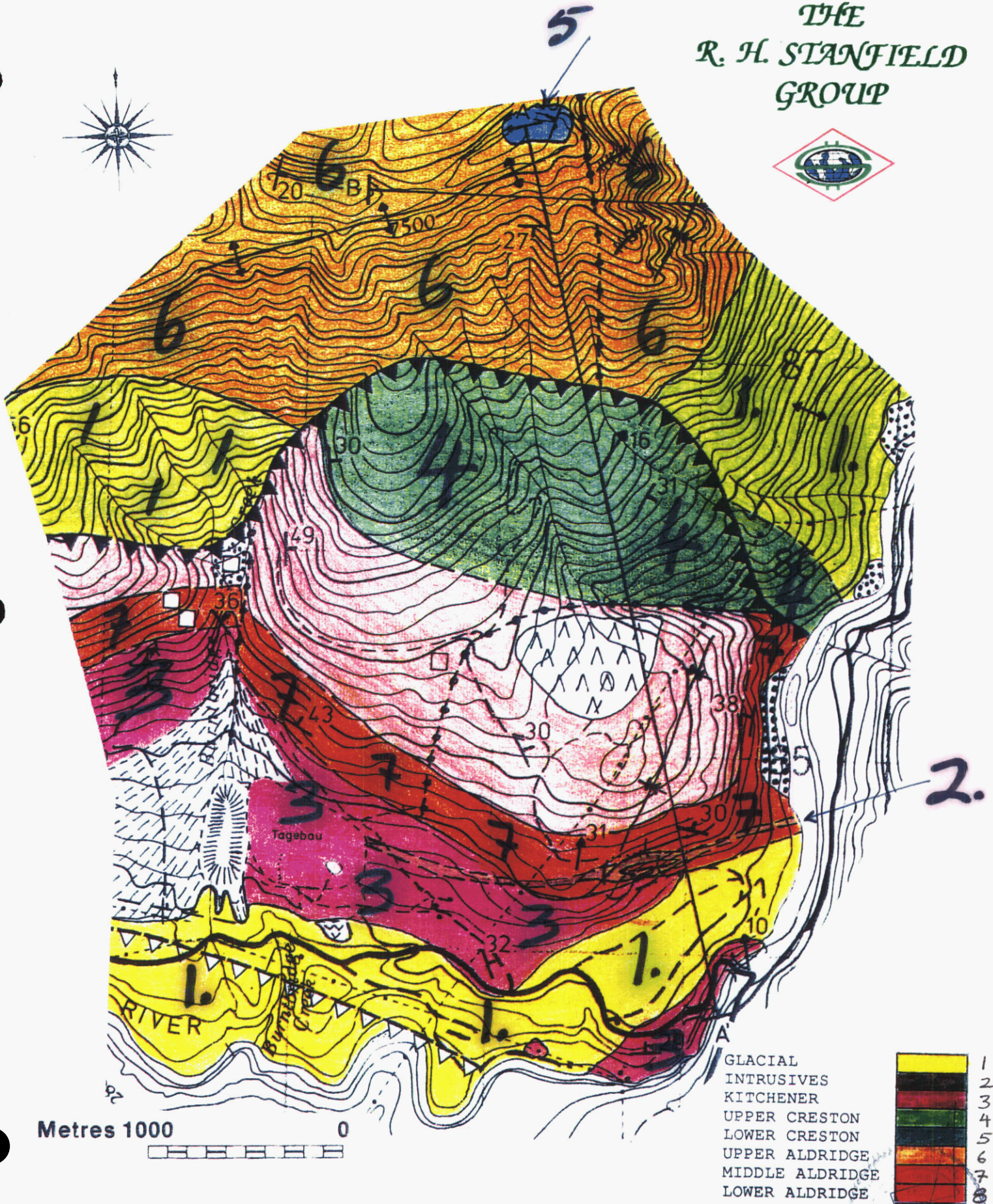
Other areas explored and mined on this Claim Group are the Dyke Zones to the immediate north of both Placid Oil open pits. Dating of these Adits is uncertain but is probably turn of the century. These Adits are on structures that extend eastward from west of the Old Abe (c1899 - p659 of Annual Reports of the Minister of Energy Mines and Petroleum Resources, British Columbia) to the Copper King (1898 - p1006; 1925 - p228 of the MEMPR Annual Reports and Geology Exploration and Mining in British Columbia, BC MEMPR 1972 - p64) and across the Bull River to the Trilby Group (1898 - p1006 and 1925 - p229). All the above were explored and in minor instances were mined for their Copper, Silver and Lead values.

5. Geology.

The Gallowai Bul River property straddles the contact between the Rocky Mountain Trench and the western edge of the Rocky Mountains. The Drill site lies within the Sand Creek Domain on the southern flank of the Steeples Range but most of the Claim Group lies predominantly within the Steeples Domain. Overburden consists of Pleistocene glaciofluvial and colluvial sediments. Metasediments of the Precambrian Aldridge and Creston, with intrusions of Moyie sills and dykes, outcrop on the property.

The Aldridge formation at the Gallowai Bul River property contains several mineralized shear zones traceable in open pits and diamond drilling. The vein systems are mineralized by chalcopyrite, pyrrhotite, arsenopyrite and pyrite with quartz, calcite and/or siderite and wollastonite as major

THE
R. H. STANFIELD
GROUP



Metres 1000 0

- 1 GLACIAL INTRUSIVES
- 2 KITCHENER
- 3 UPPER CRESTON
- 4 LOWER CRESTON
- 5 UPPER ALDRIDGE
- 6 MIDDLE ALDRIDGE
- 7 LOWER ALDRIDGE
- 8

GALLOWAI BUL RIVER GEOLOGY

Fig. 3

gangue minerals. Gold occurs in association with the quartz gangue and in the lattice of the sulphide minerals.

6. Objectives.

The Drill Site presently identified as PBR 2.94 was located to determine the existence of mineralization west of Burntbridge Creek to the west of the old Placid Oil open pit #2 and on strike and to the immediate west of the Stanfield Group identified deep reserves in the mineralized shear zones occurring down dip to the south of the old Placid veins.

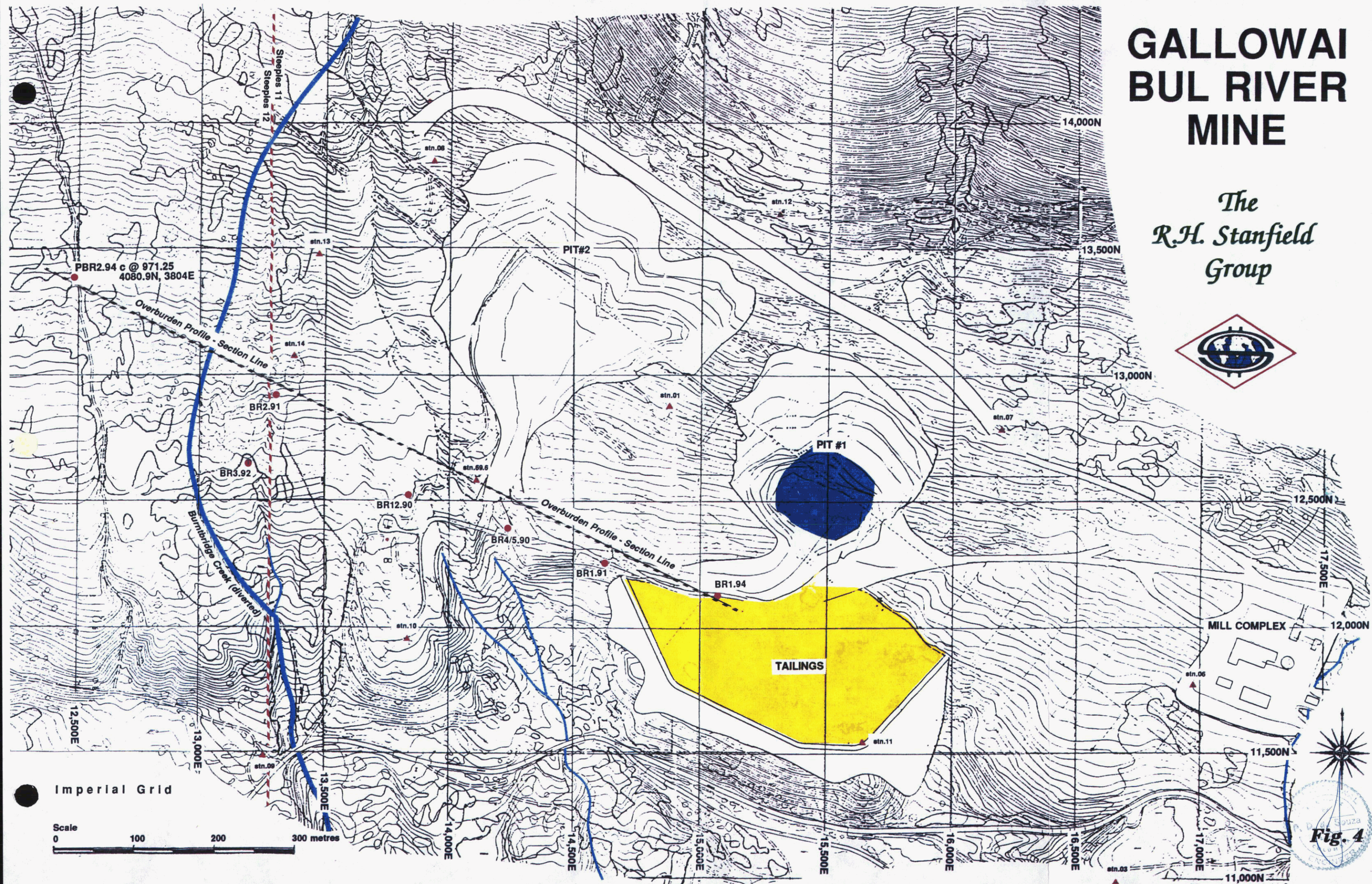
The previous operator reported that their structures had been terminated by an intersecting dyke or dykes which is clearly not the case as demonstrated through mineralized intersections they encountered south of their own workings. The Stanfield Group has considerably enhanced the prospects of this area by proving the existence of major structures to the south, east and west of these old pits.

The structures identified by the Stanfield Group are however covered by ever deepening glaciofluvial sediments as one trends west. Overburden depths are further problematic due to their consistency which ranges from fine sands and muds to boulders - either erratics or slips from the Steeples Front Range. Since the drilling of BR5.90 in the mouth and to the south of Placid Pit #2, all diamond drilling conducted to the south and west has been preceded by the setting of Rotary Percussion Casing to bedrock. Such casing can be advanced in a single pass as opposed to the necessary drilling with a Tricone (diamond drill) which must be removed with all pipe to allow replacement with a diamond cutting bit - with resultant loss of hole through slumping of boulders into the liquified mass caused by the vibrating/hammering effect of the Tricone on the individual boulders. The Rotary Percussion Drill then drops lengths of welded pipe through its own to maintain the hole open after recovering its own string.

PBR 2.94 is therefore the placing of Casing for a deep Diamond Drill Hole required to test the possibility of vein/mineralized zone extension west of Burntbridge Creek. This hole represents a step out from existing successful drilling of some 225 metres.

GALLOWAI BUL RIVER MINE

*The
R.H. Stanfield
Group*



7. Logs, Lithology and Structure - Rotary Percussion Drill Hole PBR 2.94

Depth (m)	Description	Assays
0 - 3	Detritals	n/a
3 - 281.9	Undifferentiated muds, sands, gravels and boulders.	n/a
281.9 - 291.4	Aldridge argillite	n/a
	TOTAL DEPTH	291.38m

8. Results and Conclusions.

PBR 2.94 successfully landed cased pipe onto/into bedrock for the future advancement of this hole by a diamond core recovery drill.

Due to the frequency and magnitude of some of the boulders encountered while drilling this hole, bedrock was determined by consistent recovery of uniform chippings. The hole was considered complete after uniform chippings were achieved over a 9.5 metre length commencing at a depth of 281.9 metres.

The closest Stanfield Hole to PBR 2.94 some 270 metres to the southeast (BR2.91) was cased through 218 metres of overburden prior to encountering a green argillaceous quartzite. The collar of PBR 2.94 at 971 metres is only slightly higher than that of BR 2.91 at 967 metres. In terms of present topography, PBR 2.94 is located closer to the Aldridge outcrop where the Aldridge has been covered by the outwash terrace from Burntbridge Creek which indicates that the glacial bedrock continues to plunge deeper as the Stanfield Group traces the Gallowai Bul River mineralization westwards.

The hole is cased with 30.48 metres (100 feet) of 7 inch pipe and 286.5 metres (940 feet) of 4.5 inch casing. PBR 2.94 is ready for advancement with a diamond drill and is included in the coming years drill programme.

No assays were run from chippings obtained from PBR 2.94.

9. Statement of Costs.

Costs comprise Direct Drilling and Casing Costs for PBR 2.94 as enumerated below and Indirect Costs (Labour, Consultant Fees, Management/Health & safety etcetera) incurred by the Stanfield Group in support of the Drilling such as site preparation, sumping, workers health and safety, food and lodging etcetera.

Claim Group: Steeples #2B

Claims: Steeples #12, #14, #16, #18 and #19 - all 20 Unit Claims
Assessment applicable to Steeples #12 and #14 Only

Drilling Date Rotary/Percussion Drilling - July 6, 1994 to July 17, 1994 (11 operating & R&B days)

Drill Crew	Driller	Mr. Darcy Schmidt	Box 98, Tees, Alberta.
	Drill Helper	Mr. Bruce Watt	Box 98, Tees, Alberta.
	Drill Helper	Mr. Wayne Giesenger	Box 98, Tees, Alberta.

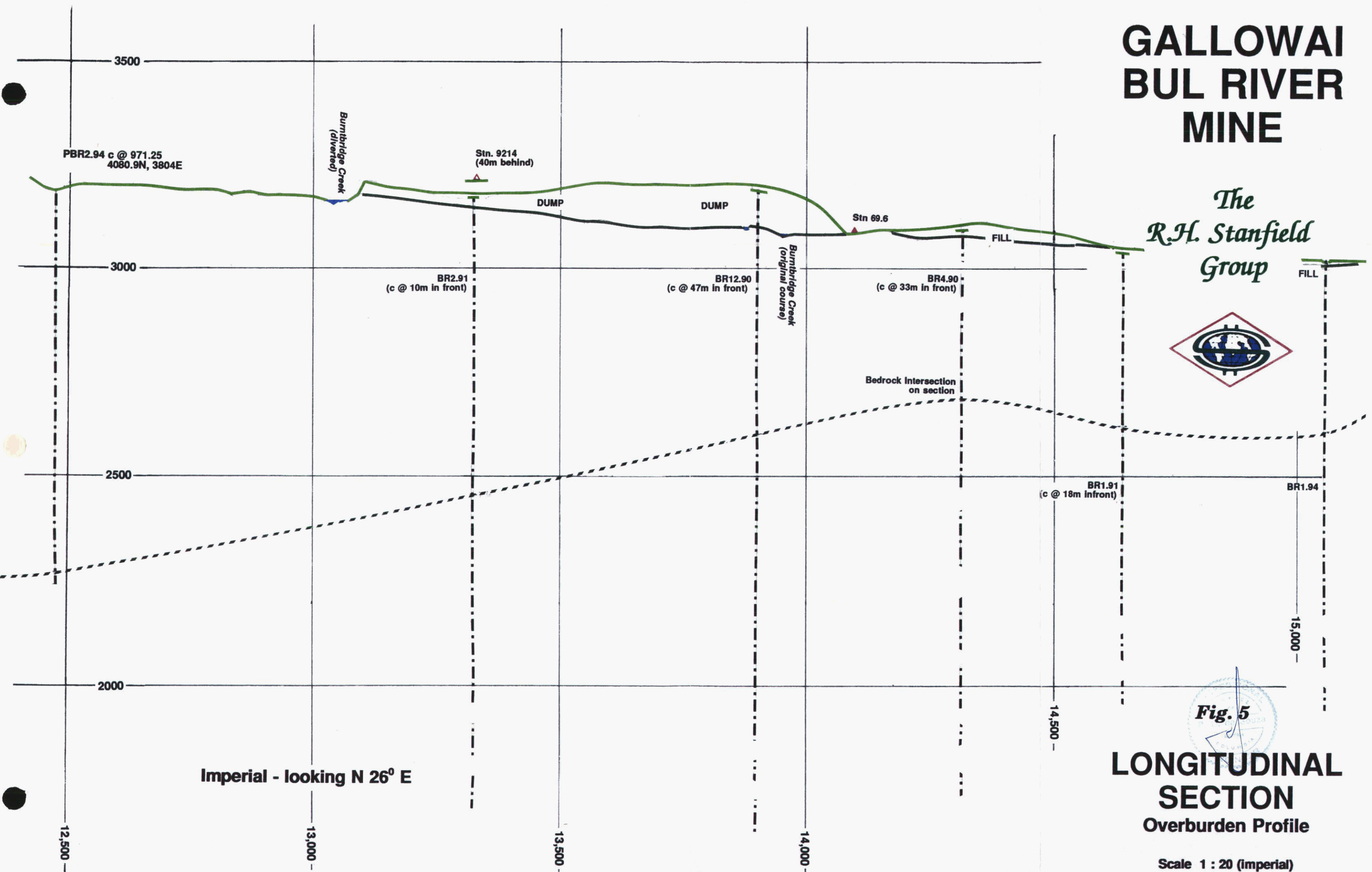
Site Crew	Manager	Mr. R. Stanfield Jr.,	Box 24, Gallowai, B.C.
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Equipment (Contractor)	1 Ingersol Rand TH60 Truck Mounted Rotary/Percussion Drill rig.
	Western Star Flatbed, Water Tanker (1000 gal)/Pipe Truck.
	Gardner Denver 5x8 Duplex mud pump - trailer mounted.
	915 Weldco Casing Hammer.
	Tool Shed Trailer 8x15.
	³ / ₄ Ton 4x4 Diesel Crew Cab Truck with fuel Slip Tank.

Equipment (Company)	Case 580D 4x4 Extended Boom Back-hoe
	D7 Caterpillar
	F250 4x4 Pickups

GALLOWAI BUL RIVER MINE

*The
R.H. Stanfield
Group*



Imperial - looking N 26° E

Fig. 5

LONGITUDINAL SECTION Overburden Profile

Scale 1 : 20 (Imperial)

Direct Costs:

<i>Mobilization & Demobilization</i>	1,000.00
<i>Drilling Costs (956 x 30)</i>	28,680.00
<i>100 ft of 7 inch Casing @ \$8.95 /ft</i>	895.00
<i>940 ft of 4.5 inch 156 Wall Casing @ \$3.20 /ft</i>	3,008.00
<i>One 7 inch Drive Shoe</i>	64.00
<i>Four 6¹/₄ Button Bits @ \$825 per</i>	3,300.00
<i>Thirty five bags of Bentonite Drill Gel @ \$8.50 per</i>	<u>297.50</u>
 <i>Total Direct Costs</i>	 <u>37,245.00</u>

Indirect Costs:

<i>R&B @ 65 \$/man/day - 3 men for 11 days</i>	2,145.00
<i>Foreman - 11 days @ \$225.00 per</i>	2,475.00
<i>Consultant Fees - Report, Inspections etcetera</i>	1,350.00
<i>Foreman (Health & Safety) Vehicle - 11 x 50</i>	550.00
<i>Other Pickup - 2 x 50</i>	100.00
 <i>D7E Crawler Tractor - 8 hrs x 110.00 \$/hr</i>	 880.00
<i>Case 580D Backhoe - 8 hrs x 42.00 \$/hr</i>	<u>336.00</u>
 <i>Total Indirect Costs</i>	 <u>7,836.00</u>

TOTAL COST PBR 2.94 45,081.00

<i>Total Assessed Costs</i>	\$45,081.00
<i>Actual Costs required for Assessment on Steeples Group #2B</i>	\$ 8,000.00
<i>Remaining Costs to be applied to PAC Account</i>	<u>\$37,081.00</u>

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CERTIFICATE

December 5, 1994

I, Phil D. de Souza, certify that:

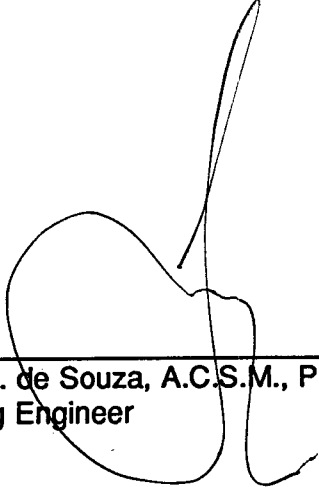
I am a graduate of the Camborne School of Mines, Cornwall, England and that I hold the degree of ACSM First Class in Mining Engineering therefrom.

I am a member of the Canadian Institute of Mining and Metallurgy and a member of the American Institute of Mining, Metallurgical and Processing Engineers.

I am a licensed Professional Engineer of the provinces of Alberta, British Columbia and Ontario, Canada and have been practising my profession for the past thirty years.

This Assessment Report on Steeples Group 2B for the R.H. Stanfield Group, Fort Steele Mining Division, British Columbia, is based on my direct project involvement with the Stanfield Group since 1987.

I certify that neither I nor my Associates or Partners hold any interest or securities in any of the corporations owning an interest in the properties, nor do I, or we, expect to receive any, directly or indirectly.



Phil D. de Souza, A.C.S.M., P.Eng.
Mining Engineer

