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**GEOLOGIC REPORT**

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M.R. # ..... \$.....  
VANCOUVER, B.C.

**LOOKOUT PROPERTY  
FORT STEELE MINING DIVISION  
BRITISH COLUMBIA**

**OWNER: THERM EXPLORATION LTD.**

**OPERATOR: WHITE KNIGHT RESOURCES LTD.  
922-510 WEST HASTINGS STREET  
VANCOUVER, B.C. V6B 1L8  
(604) 681-4462**

**NTS: 82G/5 W  
LAT: 49°27'N  
LONG: 115°56'W**

**GORDON P. LEASK  
JANUARY 17, 1992**

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,186**

## SUMMARY

The Lookout property, located 12km southwest of Cranbrook, B.C., hosts a significant, potentially bulk mineable, porphyry gold deposit. Trenching programs during the fall of 1990 and 1991 delineated a zone of intensely sericitized, silicified and quartz stockworked monzonite within the Cranbrook fault, a major PreCambrian aged structure. Gold mineralization, hosted both within the intrusive and the surrounding sediments, has been encountered in trenches along a 280m strike length with an average width of 25m and an average gold grade of 0.071 oz/ton. To the west, gold mineralization has been traced an additional 300m by soil geochemistry and remains open in that direction. To the east, trenching has closed off this zone of gold mineralization.

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A	1991 Trench Maps - Sample Locations
B	Soil Geochemistry Analysis Records
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## **1.0 INTRODUCTION**

The Lookout/Bar property was staked in 1983 to protect an area exhibiting striking similarities to the Sullivan Mine at Kimberly, B.C. Three deep drill holes totalling 5500m were drilled to the Sullivan time horizon. Economic sulphide mineralization was not encountered. A soil geochemistry program carried out along the Hamilton vein during the summer of 1990 identified a broad gold-lead anomaly near the intersection of the Hamilton vein and the Cranbrook fault. Trenching of this anomaly in the fall of 1990 uncovered an extensive zone of porphyry gold mineralization hosted within and adjacent to the Cranbrook fault. To date, ten trenches have been completed, defining a mineralized zone with a minimum strike length of 280m with widths from 10 to 25m and an average gold grade of 0.07 oz/ton.

Additional trenching followed by diamond drilling is proposed for the 1992 field season.

## **2.0 LOCATION AND ACCESS**

The Lookout property is located approximately 12km southwest of Cranbrook, about 3km west of Jim Smith Lake, Figure 1. Access is made via the Crowsnest Highway, south from Cranbrook for about 10km then west along the Lumberton Road for 4.0km and north on a logging road for 3.5km to an abandoned B.C. Forest Service fire lookout. Road conditions generally allow access to the property by 2-wheel drive vehicle.

## **3.0 PHYSIOGRAPHY**

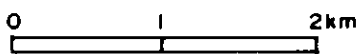
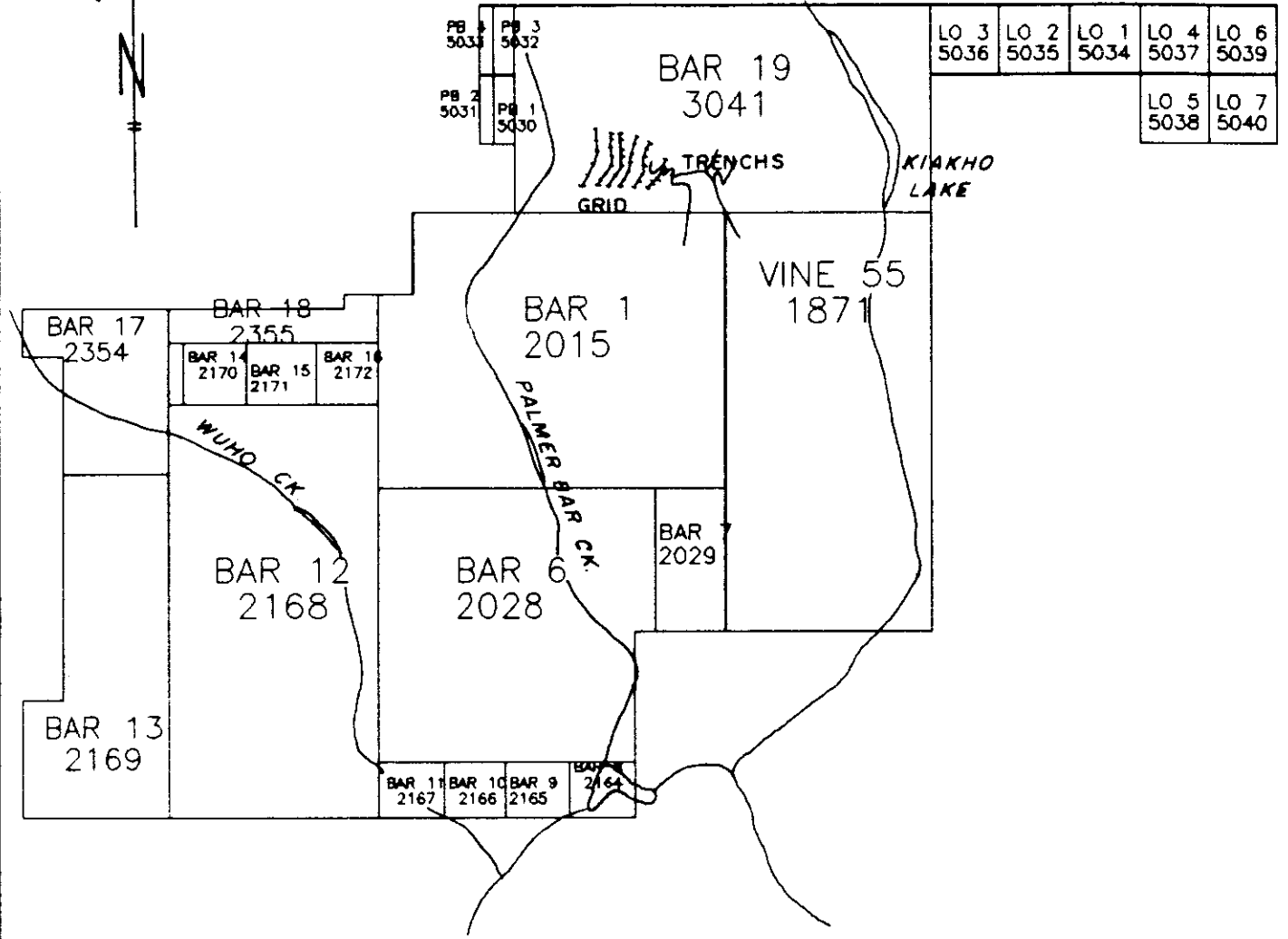
The claims are covered by second growth pine, larch and fir. Slopes are generally moderate to steep, with maximum relief of about 660 metres. The claims are drained by Palmer Bar and Kiakho Creeks which flow south to Moyie River.

## **4.0 CLAIM STATUS**

White Knight Resources Ltd. has the option to earn a 50% interest from Goldpac Investments Ltd. in 16 mineral claims and 2 Crown Grants owned by Therm Exploration Ltd. White Knight and Goldpac jointly own 11 two-post mineral claims. The claim status is shown in Table 1. The claims are shown on Figure 2.



WHITE KNIGHT RESOURCES LTD.	
LOCATION MAP	
LOOKOUT PROPERTY	
DATE: FEB, 1992	SCALE
NTS: 82G/5W	FIGURE: 1



WHITE KNIGHT RESOURCES LTD.	
CLAIM MAP	
LOOKOUT PROPERTY	
DATE: FEB, 1992	SCALE 1:50,000
NTS: 82G/5W	FIGURE: 2

**TABLE 1 - CLAIM DATA**

CLAIM NAME	NEW RECORD NO.	UNITS	EXPIRY DATE	OLD RECORD NO.
Vine 55	209984	18	Jul 18, 1998	1871
Bar 1	210010	20	Nov 10, 1998	2015
Bar 6	210015	16	Dec 14, 1998	2028
Bar 7	210016	2	Dec 14, 1998	2029
Bar 8	210038	1	Jul 03, 1998	2164
Bar 9	210039	1	Jul 03, 1998	2165
Bar 10	210040	1	Jul 03, 1998	2166
Bar 11	210041	1	Jul 03, 1998	2167
Bar 12	210042	18	Jul 03, 1998	2168
Bar 13	210043	10	Jul 03, 1998	2169
Bar 14	210044	1	Jul 03, 1998	2170
Bar 15	210045	1	Jul 03, 1998	2171
Bar 16	210046	1	Jul 03, 1998	2172
Bar 17	210101	6	Feb 20, 1998	2354
Bar 18	210102	3	Feb 20, 1998	2355
Bar 19	210402	18	Dec 01, 1998	3041
Pb 1	212233	1	Jan 08, 1995	5030
Pb 2	212234	1	Jan 08, 1995	5031
Pb 3	212235	1	Jan 08, 1995	5032
Pb 4	212236	1	Jan 08, 1995	5033
L.O. 1	212237	1	Dec 30, 1994	5034
L.O. 2	212238	1	Dec 30, 1994	5035
L.O. 3	212239	1	Dec 30, 1994	5036
L.O. 4	212240	1	Dec 30, 1994	5037
L.O. 5	212241	1	Dec 30, 1994	5038
L.O. 6	212242	1	Dec 30, 1994	5039
L.O. 7	212243	1	Dec 30, 1994	5040
Belleville	C.G. L. 5252	1	N/A	
Lookout	C.G. L. 5254	1	N/A	

## **5.0 PROPERTY HISTORY**

The property, known as the Belleville Group or Hamilton Group was staked by J. Hamilton in 1903. In 1926 the two crown granted claims, Belleville 1 and 2, surveyed Lots 5253 and 5254, were worked under option by R.H. Finley.

In 1939 the claims were held under option by J. Powelson of Cranbrook, B.C. and were examined by L. Telfer for Consolidated Mining and Smelting. Powelson also staked adjacent ground as the British group.

The property was staked by J. Leask and associates in 1983 based on recent work in the area for SEDEX deposits. Noranda Exploration optioned the property and drilled a 1549m deep hole in 1985 before dropping the option. Goldpac Investments acquired an option to earn a 100% interest in the property in 1987 and carried out a controlled source audio-magnetotelluric geophysical survey (CSAMT) and drilled a 2100m deep hole in 1988. Goldpac opened and sampled the Hamilton workings in 1989. White Knight acquired an option to earn a 50% interest in the mineral rights above 150 metres above sea level and a 40% interest in the mineral rights below 150 metres above sea level in 1990. White Knight carried out IP geophysical surveys, soil geochemistry surveys, trenching and a 6 hole drilling program on the Hamilton-Lookout vein and drilled a 1968 metre deep hole to test the SEDEX potential on the property.

A soil geochemistry program undertaken during the 1990 field season outlined a large area of anomalous soil geochemistry in both gold and lead on the northern portion of the property. Follow up trenching along the Cranbrook fault uncovered a strongly altered gold bearing quartz monzonite intrusive dyke related to the Kiakho Creek stock.

## **6.0 REGIONAL GEOLOGY**

The property is situated in the Moyie Range of the Purcell Mountains, west of the Rocky Mountain Trench, and on the east flank of the Purcell Anticlinorium. In the Cranbrook area, the Purcell and Rocky Mountain Belt and thrust eastward during Mesozoic and Tertiary times, with Mesozoic dioritic, quartz monzonite and syenitic intrusive activity (stocks, dykes and sills). Major north to northeast trending faults bound what appears to have been a Proterozoic depositional graben in an extensive clastic basin extending southward into Idaho and Montana in which the Belt-Purcell Supergroup was deposited. Reactivated (growth) faults may have had an influence on deposition of the numerous stratiform massive sulphide deposits, such as the world class Sullivan deposit and smaller North Star, Stemwinder and Kootenay King deposits in the Cranbrook-Fort Steele area. Later northeast trending faults such as the Cranbrook and Kimberley faults may have been transform faults which offset "spreading centres" which were the focus of major sedimentary exhalative deposits which were preceded by igneous activity and accompanied by areas of tourmaline and albite alteration.



## 6.1 Stratigraphy

Rocks in the area belong to the Purcell Supergroup of Upper Proterozoic age, and Paleozoic Cambrian to Middle Devonian sedimentary rocks, as shown in the accompanying stratigraphic column, Figure 3, and described briefly below:

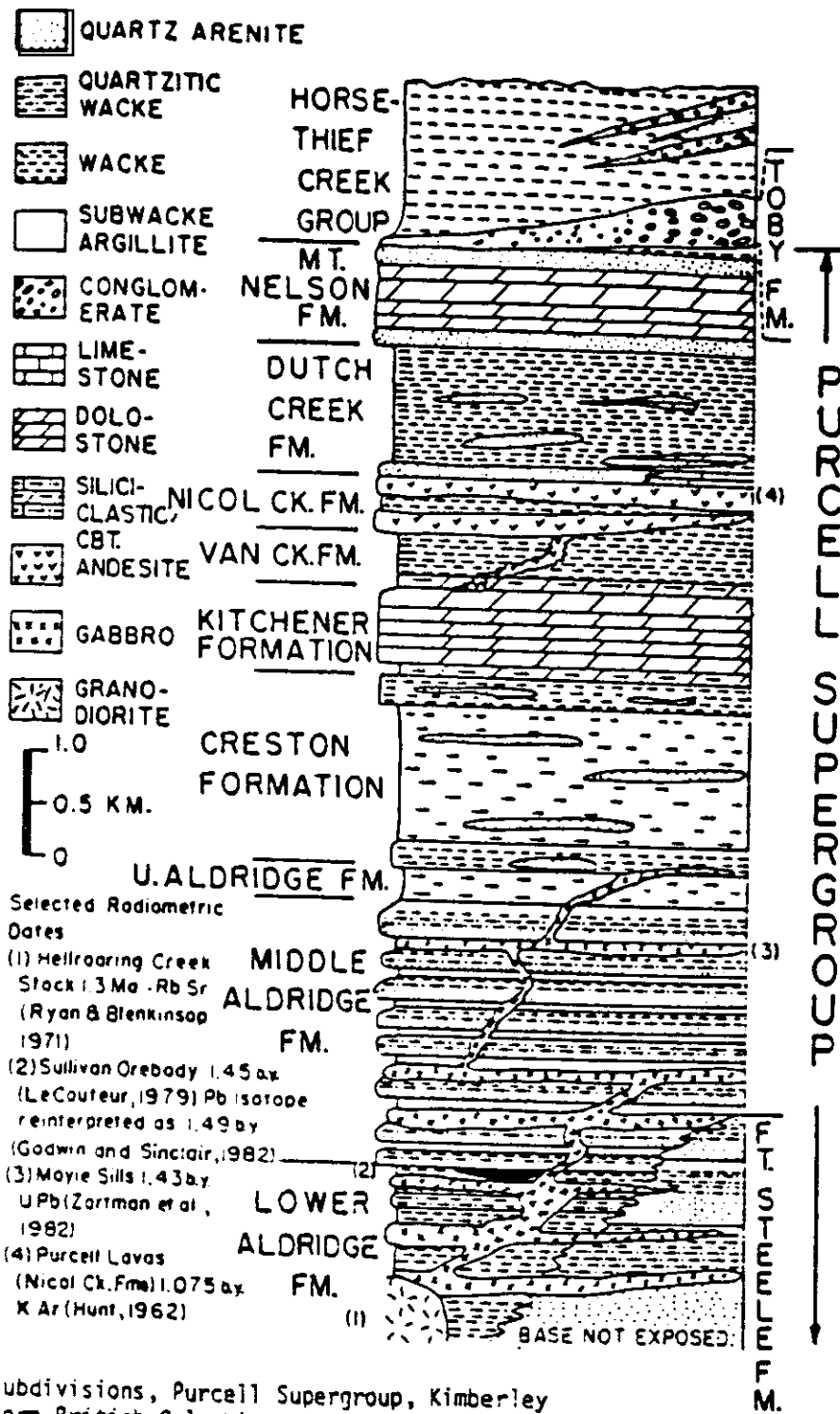
The Fort Steele Formation is the oldest unit exposed in the region, comprising at least 2,000 meters of cyclically graded quartzites to thinly laminated siltstones. Near the top of the unit grey siltstone and argillite predominate. The Formation represents braided fluvial (alluvial fan) deposits derived from a source area to the south. The unit is absent in the claims area but appears north of the Boulder Creek Fault in the Kootenay King-Estella mine area.

The Aldridge Formation is a thick unit (3,500-4,500 meters) of quartzites, siltstones and argillites with graded bedding, rip-up clasts, sole marks, and other characteristics of "turbidite" deposition. The Formation is divided into Lower, Middle and Upper divisions. The lower division has a gradational contact with the Fort Steele Formation below, and consists of dark grey to black argillites, siltstones and quartzites (greywackes). The Middle Aldridge, which hosts the important Sullivan sedimentary-exhalative massive sulphide deposit, comprises thick grey quartz-wacke units interbedded with laminated siltstone, and intruded by a number of thick, laterally continuous meta-gabbro sills (greenstone). Repetitive laminations in siltstone-argillite sequences can be correlated for up to 300km along strike, and are important "marker horizons". The Upper Aldridge includes 300-400 meters of rusty weathering grey argillite and laminated siltstone, and in some places two thick shallow-water dolomite horizons.

The Creston Formation is a thick unit (1500 meters) of green, purple, and white quartzite, siltstone and argillite of intertidal to subaerial depositional origin, characterized by mudcracks, ripple marks, rip-up clasts, lead casts and scour and fill structures. Contact with the overlying carbonate unit is gradational.

The Kitchener Formation consists of green or grey dolomitic and green non-dolomitic siltite, grey silty dolomite, rare stromatolitic, oolitic sandy dolomite, grey siltite with graded beds and rip-up debris beds. The unit was deposited in an intertidal environment. North of the Dibble Fault and in the Kimberley area, massive to amygdaloidal lava are present, and are called the Nicol Creek Formation. These are chloritized and sericitized and are accompanied by distinctive volcanic and feldspathic sandstones. This unit separates the Van Formation from the lithologically similar Gateway Formation, including light green to buff siltstone, argillite, silty dolomite, fine grained quartzite, with shallow water depositional features.

Overlying the Nicol Creek and Gateway Formations, (depending on how deeply regional unconformities have eroded), the upper part of the Purcell Group includes the



Stratigraphic subdivisions, Purcell Supergroup, Kimberley area, southeastern British Columbia.

WHITE KNIGHT RESOURCES LTD.	
LOOKOUT PROPERTY	
STRATIGRAPHIC COLUMN	
DATE: Feb. 1991	SCALE:
NTS: 82F/2E	FIGURE: 3

Dutch Creek Formation, about 1200 meters of grey and green argillites and quartzites, the Mt. Nelson Formation, up to 1000 meters of oolitic and stromatolitic dolomites and limestones and argillites.

## 6.2 Intrusive Activity

Several large sills and dykes of Purcell age are present in the region, but only the largest ones are shown on the accompanying geological map. These are most common in the Aldridge and Fort Steele Formations, but may also be present in higher Proterozoic strata. The "Moyie Sills", predominantly gabbro in composition, have ages identical to the enclosing Aldridge strata (1433 Ma). Hoy (1983) suggests they were emplaced into uncompacted water-saturated sediments. Sulphide accumulations and veins are common adjacent to sill or dyke margins, and the Moyie intrusions are suggested to be part of a thermal/hydrothermal and mineralizing event accompanying rifting in a graben controlled deep clastic basin or graben.

Other intrusive rocks are present; porphyritic quartz monzonite stocks are present at Kiakho Creek, just north of the Lookout workings, at Reade Lake on the St. Mary Fault, north of Cranbrook, near the Estella mine, below the Kootenay King mine workings, and near East Wildhorse River. A large stock straddles the divide between Wildhorse River, Tanglefoot Creek, and Summer Lake, and occupies the core of an anticline. Composition of this body ranges from dioritic to syenitic. Many of the Mesozoic intrusions are associated with mineral deposits or at least have a spatial relationship.

Regional geology is shown by the accompanying map prepared by Hoy, Figure 4.

## 7.0 1991 WORK PROGRAM

The 1991 work program consisted of a soil geochemistry survey conducted along topographic contour lines to the west of the 1990 trenching and additional trenching both to the east and west of the 1990 work.

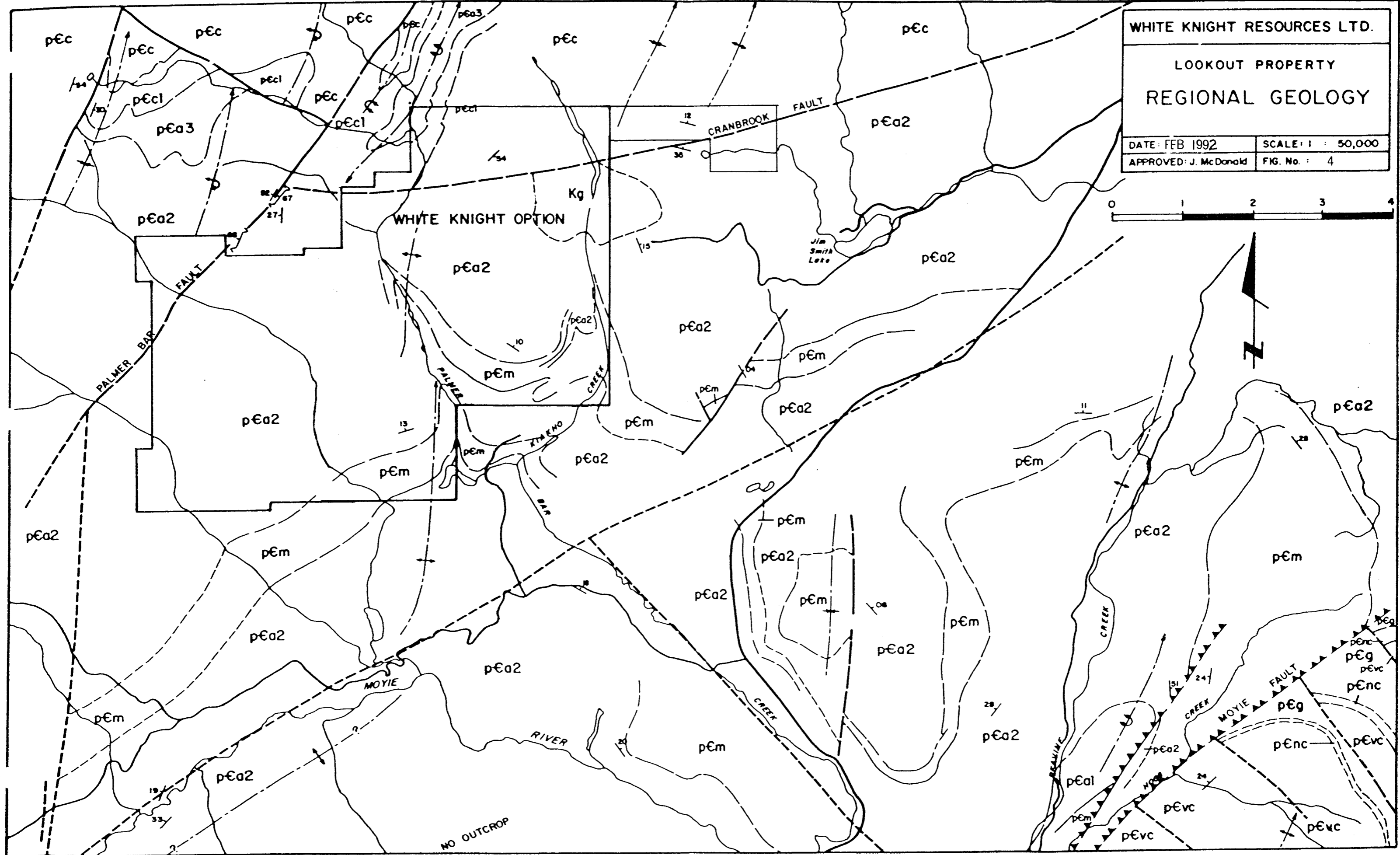
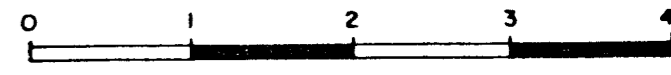
During July, 1991 six lines were flagged along topographic contours to the west of the trenches. A total of 79 soil samples were collected from the B soil horizon at 25 metre intervals along the lines. The samples were shipped to Acme Analytical Labs for analysis by 30 element ICP and geochemical gold (atomic absorption). Soil geochemistry results are presented in Appendix B and on Figure 6.

During August and September, 1991 a total of 15 days of trenching was carried out using a track mounted excavator. Four trenches were excavated to the east of the 1990 trenches, one trench was excavated within the area of the 1990 trenches and two trenches were excavated to the west of the 1990 trenches. The trenches were

WHITE KNIGHT RESOURCES LTD.

LOOKOUT PROPERTY  
REGIONAL GEOLOGY

DATE: FEB 1992      SCALE: 1 : 50,000  
APPROVED: J. McDonald      FIG. No. : 4



# LEGEND - REGIONAL GEOLOGY, PROPERTY GEOLOGY

## PLEISTOCENE AND RECENT


 TILL, GRAVEL, SAND, AND ALLUVIAL DEPOSITS

## LOWER CRETACEOUS

 QUARTZ MONZONITE, GRANODIORITE

## DEVONIAN (?)

### FAIRHOLME GROUP

 DARK GREY TO BLACK, FINE-GRAINED FOSSILIFEROUS LIMESTONE. LOCAL NODULAR CHERT BEDS. BASE COMMONLY MARKED BY A FLUVIAL COBBLE CONGLOMERATE OVERLAIN BY A MEDIUM TO COARSE-GRAINED SANDSTONE

 PEAVINE CONGLOMERATE

COBBLE TO COARSE BOULDER, POLYMICTIC PARACONGLOMERATE WITH SILT TO SAND MATRIX. MASSIVE TO MODERATELY WELL BEDDED

## MIDDLE PROTEROZOIC


 MOVIE INTRUSIONS

METADIORITE TO METAGABBRO SILLS AND LOCALLY DYKES


## PURCELL SUPERGROUP

 ROOSVILLE FORMATION

GREY TO BLACK ARGILLITE WITH INTERCALATED GREEN SILTSTONE. GREEN SILTY ARGILLITE WITH THIN MAUVE SILTSTONE INTERLAYERS. OCCASIONAL THIN DOLOMITE, STROMATOLITIC DOLOMITE, AND CONGLOMERATE LAYERS

 PHILLIPS FORMATION

THIN-BEDDED PURPLE AND RED ARGILLITE, SILTSTONE AND QUARTZITE. MINOR GREEN SILTSTONE INTERLAYERS NEAR BASE

 GATEWAY AND SHEPPARD FORMATIONS

UPPER THIN-BEDDED, FINELY LAMINATED GREEN SILTSTONE MINOR PURPLE ARGILLITE  
MIDDLE GREEN BROWN AND REDDISH BROWN SILTSTONE AND QUARTZITE, INTERBEDS OF GREEN AND PURPLE ARGILLITE. DIAGNOSTIC SALT CRYSTAL CASTS THROUGHOUT  
LOWER (SHEPPARD FORMATION) THIN BEDDED DOLOMITE, STROMATOLITIC DOLOMITE, MAUVE, GREY AND GREEN SILTSTONE, DOLOMITIC SILTSTONE AND QUARTZITE, COBBLE BOULDER POLYMICTIC PARACONGLOMERATE AT BASE

## PURCELL SUPERGROUP (CONTINUED)

 MCOL CREEK FORMATION

PURPLE AND GREEN, AMYGDALOIDAL AND VESICULAR BASALT. LOCALLY PORPHYRITIC (PLAGIOCLASE PHENOCRYSTS). INTERLAYERED GREEN TUFF BEDS AND THIN-BEDDED, COMMONLY GRADED, GREEN AND PURPLE SILTSTONE LAYERS. Inc: PURPLE VOLCANICLASTIC SILTSTONE AND SANDSTONE

 VAN CREEK FORMATION

THINLY LAMINATED PALE GREEN AND PURPLE SILTSTONE AND SHALE, CHARACTERISTICALLY REDDISH ORANGE WEATHERING. THIN-BEDDED PURPLE AND RED ARGILLACEOUS LIMESTONE; GREEN SILTY QUARTZITE; MINOR ARGILLACEOUS LIMESTONE NEAR BASE

 KITCHENER FORMATION

MEDIUM TO DARK GREY SILTY AND ARGILLACEOUS DOLOMITE, DOLOMITIC ARGILLITE, AND ARGILLACEOUS LIMESTONE. GREY SILTY DOLOMITE WITH BLACK ARGILLACEOUS PARTINGS; MINOR GREEN SILTSTONE AND ARGILLITE

pEc, PALE YELLOWISH GREEN SILTSTONE AND ARGILLITE WITH INTERLAYERED BUFF-WEATHERING DOLOMITIC SILTSTONE AND ARGILLITE. MINOR DARK GREY LIMY ARGILLITE

 CRESTON FORMATION

LIGHT TO MODERATE GREEN SILTSTONE AND ARGILLITE. LESSER GREY, LIGHT BROWN, AND PURPLE-TINGED SILTSTONE AND ARGILLITE. WHITE QUARTZITE; MINOR BUFF-WEATHERING DOLOMITIC SILTSTONE

pEc, GENERALLY RUSTY WEATHERING LIGHT TO DARK GREY SILTSTONE, ARGILLITE, AND SILTY QUARTZITE; LENTICULAR-BEDDED DARK GREY SILTY ARGILLITE; INTERLAYERED GREEN SILTSTONE AND GREY ARGILLITE

 ALDRIDGE FORMATION

pEa, (UPPER ALDRIDGE): THINLY LAMINATED, RUSTY WEATHERING, LIGHT TO DARK GREY ARGILLITE AND ARGILLACEOUS SILTSTONE

pEa, (MIDDLE ALDRIDGE): THIN TO THICK-BEDDED GREY QUARTZITE WACKE INTERLAYERED WITH LAMINATED SILTSTONE, SILTSTONE AND RUSTY WEATHERING ARGILLITE DOMINATE NEAR TOP

pEa, (LOWER ALDRIDGE): RUSTY WEATHERING SILTSTONE AND QUARTZITE WITH INTERBEDS OF SILTY ARGILLITE. INTERLAYERED RUSTY WEATHERING QUARTZ WACKE AND SILTSTONE NEAR TOP

## SYMBOLS

ROCK OUTCROP

GEOLOGICAL CONTACT  
DEFINED, APPROXIMATE, ASSUMED

FAULT DEFINED,  
APPROXIMATE, ASSUMED

THRUST OR REVERSE FAULT

NORMAL FAULT

FOLD AXIAL TRACE  
ANTICLINE (OVERTURNED)

SYNCLINE (OVERTURNED)

BEDDING INCLINED, OVERTURNED

TOPS UNKNOWN

FLOW STRUCTURE IN VOLCANIC ROCKS

FOLIATION CLEAVAGE

LINEATION

MINOR FOLD AXIS (SHOWING VERGENCE)

SMALL SHEAR (SHOWING DIP)

MINERALIZED VEIN (SHOWING TREND)

MINE, PROSPECT, OR OCCURRENCE

SILT SAMPLE LOCATION

EDGE OF MAPPING

TOPOGRAPHIC CONTOUR (500 FOOT INTERVAL)

ROAD: HARD SURFACE

LOOSE OR STABILIZED SURFACE

LAKE

sampled by chipping small pieces uniformly across the entire sample interval, typically 2 or 3 metres, resulting in large overall samples. The entire sample was shipped to Chemex Labs for analysis.

The rock samples were analyzed by standard One Assay Ton fire assay methods. For samples with elevated gold, the entire sample was crushed and split into two samples. These samples were then screened and checked for coarse metallics. Both samples were analyzed by One Assay Ton fire assay methods and for total metallics where applicable. The results were then combined to give the sample grade. The laboratory assay sheets are presented in Appendix C .

## **8.0 PROPERTY GEOLOGY**

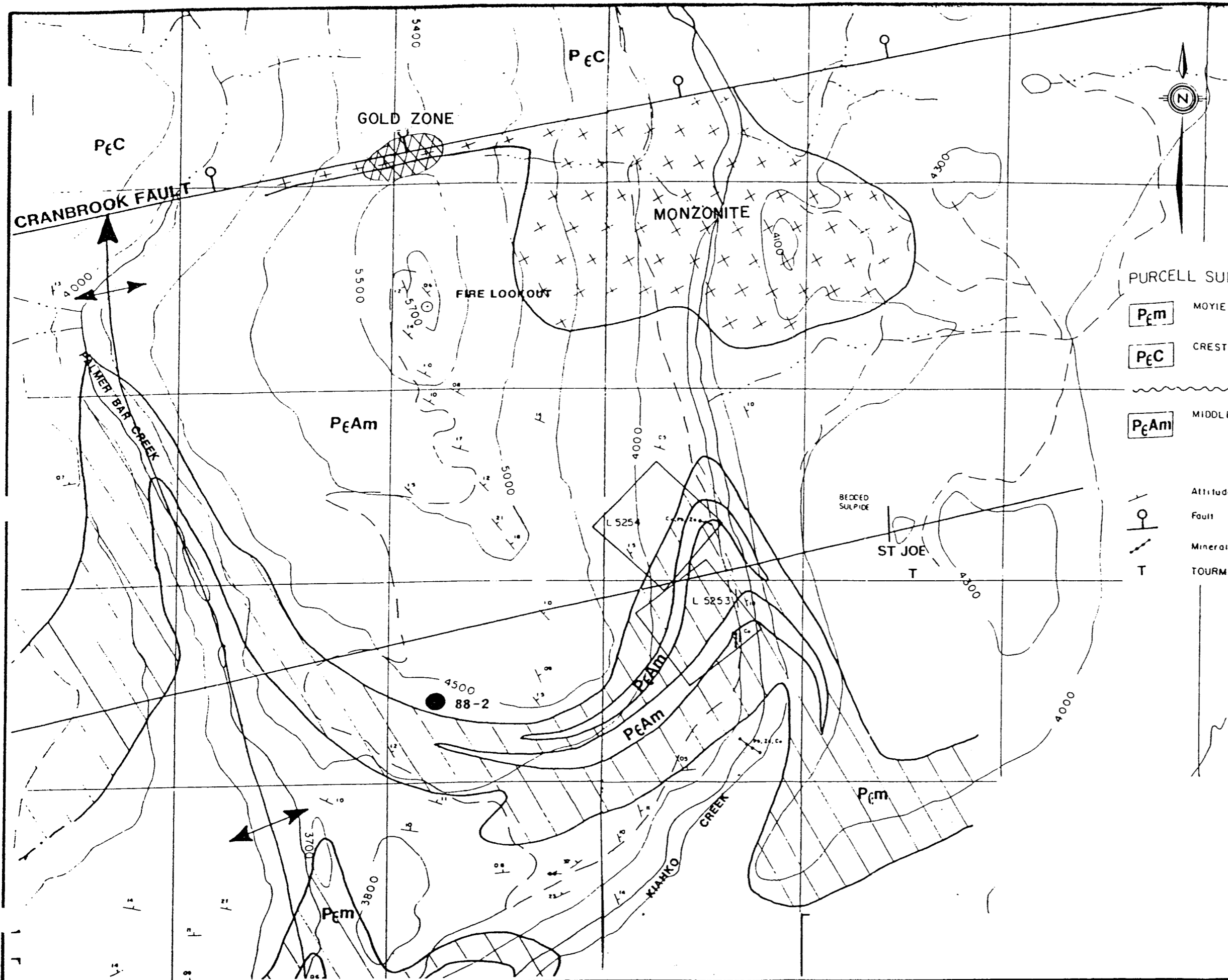
The Lookout property is underlain by Proterozoic rocks of the Middle Aldridge and Creston Formations, comprised of a turbiditic succession of quartzites, siltites and argillites and intruded by gabbroic to dioritic Moyie sills and dykes. Also intruding this succession are Cretaceous to Early Tertiary aged quartz-monzonite to syenite stocks with associated dykes and sills. The property sits on the eastern limb of a north trending, shallowly north plunging anticline. The rock strata are gently folded by this anticline and the strike on the east limb is generally northwest with shallow dips to the northeast.

The Cranbrook Fault is the most prominent structure on the property, cutting across the northern portion of the property. The fault strikes northeasterly with near vertical dip and exhibits at least 2000 metres of normal displacement, placing Creston sediments in contact with Middle Aldridge sediments. Cretaceous-early Tertiary aged intrusive activity is focused along the fault within a wide zone of alteration. Property geology is shown in Figure 5.

Gold mineralization associated with the intrusive and surrounding alteration has been traced in trenches for 280m along strike and remains open to the west. The soil geochemistry program carried out to the west of the trenching has outlined a broad, open ended, gold soil anomaly extending a further 300m to the west.

## **9.0 DISCUSSION**

Ten trenches were completed during 1990/1991 along 500m of strike of the Cranbrook fault structure near the intersection of the Cranbrook fault and the Hamilton-Lookout vein structure. These trenches outlined a zone of highly altered, gold rich quartz monzonite intrusive. An alteration envelope surrounding the fault implies mineralization and alteration post date movement on the Cranbrook fault.

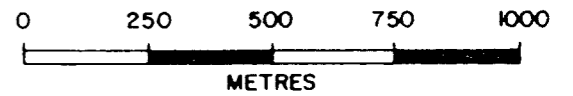


**LEGEND**

**PURCELL SUPER GROUP**

- Pεm** MOYIE INTRUSIONS - Metadiorite to metagabbro sills and locally dikes.
- PεC** CRESTON FORMATION - Light green to cream, clean quartzites with minor green siltstone.
- PεAm** MIDDLE ALDRIDGE - Thin to thick bedded greywacke and subwacke interlayered with minor siltstone and argillite.

- SYMBOLS**
- Altitude of bedding
  - Fault
  - Mineralized vein
  - TOURMALINITE
  - Geologic contact (known, approximate)
  - Fold axial trace (anticline)



<b>WHITE KNIGHT RESOURCES LTD.</b>	
<b>LOOKOUT PROPERTY</b>	
<b>PROPERTY GEOLOGY</b>	
DATE: 3/3/92	SCALE: 1 : 15,000
APPROVED: J. McDonald	FIG. No.: 5

Results from the trenching programs in 1990 and 1991 suggest that the structural and mineralogical setting of the Lookout discovery closely resembles the Beartrack deposit in eastcentral Idaho. Assay intervals from four trenches representing 280m of strike length were 0.035 oz/ton across 20m, 0.045 oz/ton across 30m and 0.132 oz/ton across 26m and 0.12 oz/ton across 18m. In addition, trench 6 of the 1991 program returned 0.044 oz/ton across 16m in the altered Aldridge sediments on the south side of the structure. Trenching during the 1991 field season truncated this zone of gold mineralization on the east. The results of the trenching are summarized in Table 2. Trenches are listed from east to west. Trench 7 did not reach rock.

TABLE 2  
LOOKOUT PROPERTY TRENCH RESULTS

TRENCH	WIDTH (m)	GOLD (oz/ton)	COMMENTS
4		no significant gold	Most easterly trench
3		no significant gold	
2		no significant gold	
1	14.0	0.021	Well developed fracture set. Trench along strike.
31+00N	20.0	0.035	1990 trench
5	3.0 16.0 15.0	0.073 0.020 0.014	Three separate zones in altered monzonite
32+00N	30.0	0.045	1990 trench
32+30N	26.0	0.132	1990 trench
6	18.0 16.0	0.120 0.044	Intense alteration, well developed quartz stockwork. 16m zone in sediment.
7		excessive overburden	Intensely altered and stockworked float.

A detailed map of the trenches is presented in Figure 6. Individual trench maps showing sample locations are presented in Appendix A.



Gold mineralization is associated with micro quartz stockwork development in highly altered and bleached quartz monzonite and sediments. This stockwork development and associated gold grades increases to the west and is best developed in trench 6 and in float from trench 7.

## **10.0 CONCLUSIONS**

Ten trenches along the Cranbrook fault have uncovered an extensive zone of gold porphyry mineralization. The intensity of alteration, as well as the average gold grade, increases to the west and remains open along strike to the west. Soil geochemistry has been an effective tool in tracing gold mineralization along the Cranbrook Fault. Four trenches, representing 280m of strike, within the mineralized portion of the altered quartz monzonite average 25m in width with an average gold grade 0.071 oz/ton.

## **11.0 RECOMMENDATIONS**

The soil geochemistry survey should be extended to the property boundary to the west and a survey should be carried out to the east of the trenches to test for the possibility of other gold zones along the Cranbrook fault.

Prospecting should be carried out both to the north and south of the main trace of the Cranbrook fault to check for en echelon zones of dyking, alteration or mineralization.

Trenching of the existing geochemistry targets as well as any new targets found with the proposed soil survey should be carried out.

A diamond drill program to test the depth extent of the gold mineralization should be carried out after completion of the trenching program.

12.0 EXPENDITURES (June - December, 1991)

Personnel

Gordon P. Leask  
(30 days @ \$400/day) \$13,200.00

Terry Eldridge  
(5 days @ \$400/day) 2,000.00

Jim McDonald  
(5 days @ \$400/day) 2,000.00

Lodging/Food 1,618.08

Vehicle Rental 1,647.00

Contractors

Kootenay Nissus Resource 1,980.00

R.W. Anderson Contracting Ltd. 8,931.00

Double Eagle Construction Ltd. 4,677.52

H&E Rotvold Trucking 277.66

Laboratory Analyses

Acme Analytical Lab. 901.21

Chemex Labs Ltd. 3,290.50

Printing 119.11

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TOTAL \$40,642.08

## **13.0 REFERENCES**

### **B.C.M.M.: Annual Reports**

**Beaty, D.W., Et Al (1988) Field Isotopic and chemical studies of tourmaline bearing rocks in the Belt-Purcell supergroup; genetic constraints and exploration significance for Sullivan type ore deposits. Can. Journal Earth Sciences. V25. pp.392-402**

**Freeze, A.C.: (1966) On the Origin of the Sullivan Orebody, Kimberley, B.C., Tectonic History and Mineral Deposits of the Western Cordillera. C.I.M.M. Special Volume 8, pp.263-294.**

**Hamilton, J.M. Et Al (1983) Geology of the Sullivan Deposit, Kimberley, B.C., Canada. Mineralogical Association of Canada. Short Course in Sediment Hosted Stratiform Lead-Zinc Deposits, Victoria. pp.31-83.**

**Hoy, T.: (1984) Structural Setting, Mineral Deposits, and Associated Alteration and Magmatism Sullivan Camp, Southeastern British Columbia.**

**Hoy, et al.: (1985) Field Guides to Geology and Mineral Deposits in the Southern Canadian Cordillera. GAC Cordilleran Section Meeting Vancouver B.C., May 1985.**

**McClay, K.R.: (1983) Structural Evolution of the Sullivan Fe-Pb-Zn-Ag Orebody, Kimberley, British Columbia, Canada. Economic Geology, Vol. 78, 1983, pp.1398-1424.**

**McDonald, J.M.: (1990) Exploration Program - January to May, 1990. Diamond Drilling, Geophysics, Linecutting. Lookout Property, Fort Steele Mining Division, B.C. Internal Report for White Knight Resources Ltd.**

**Ney, C.S.: (1957) Kootenay King Mine. Structural Geology of Canadian Ore Deposits, CIM Congress Volume, pp. 153-158.**

**Price, B.J.: (1989) Geological Report, Lookout Property, Cranbrook Area, B.C. Internal Report for White Knight Resources Ltd.**

**Price, B.J.: (1991) Geological Report, BAR Property, Fort Steele Mining Division, B.C. Internal Report for White Knight Resources Ltd.**

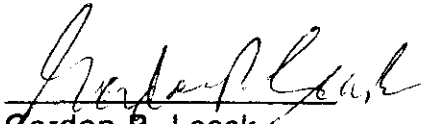
**Ransom, P.W.: Geology of the Sullivan Orebody in Guidebook Pb-Zn in S.E.B.C. Trip 1.**

**Tipper, et al: Tectonic Assemblage Map of the Canadian Cordillera (1981), Geologic Survey of Canada Map 1505A.**

#### 14.0 QUALIFICATIONS

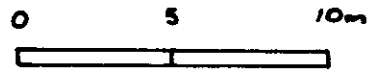
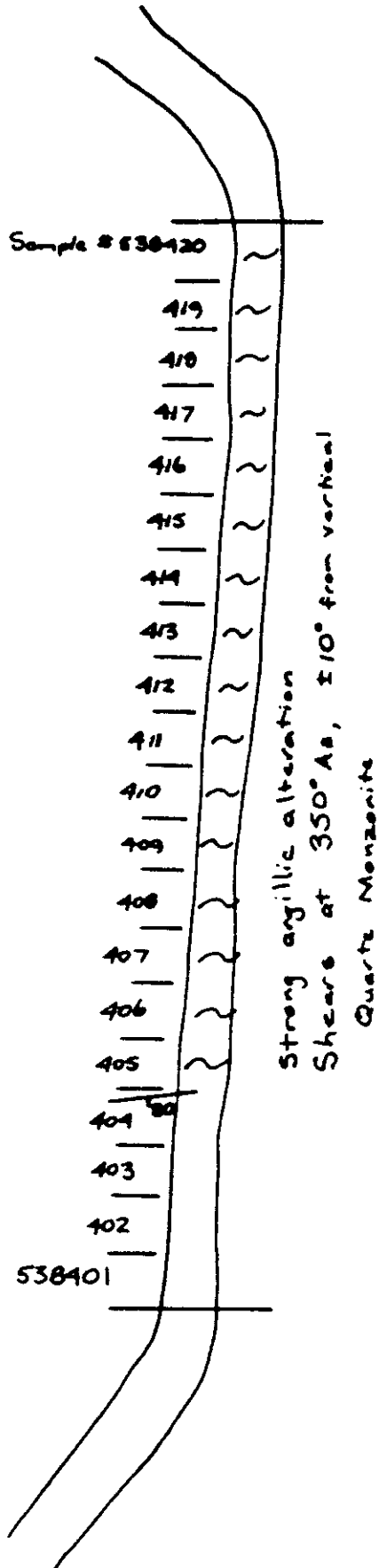
I, Gordon P. Leask, do hereby certify that:

- 1) I am a geologist with residence at 1940 Chesterfield Ave., North Vancouver, B.C., V7M 2P5
- 2) I am a graduate of the University of British Columbia with a Bachelor of Applied Science degree in Geological Engineering (1985).
- 3) I have been prospecting since 1979.
- 4) I directed the exploration on the Lookout property.

  
Gordon P. Leask

**APPENDIX A**

**1991 TRENCH MAPS - SAMPLE LOCATIONS**



WHITE KNIGHT RESOURCES LTD.	
TRENCH 1	
LOOKOUT PROPERTY	
DATE: FEB, 1992	SCALE 1" = 200'
NTS: 82G/5W	FIGURE: A-1



Creston sediments  
Moderate argillic  
alteration.  
Strong fracturing  
& cementing

Creston Formation

Monzonite  
Strong argillic alteration

Moderate to  
strong argillic  
alteration, minor pyrite

Competent rock  
weak alteration

hematite

No quartz healed  
fractures

Sample # 538428

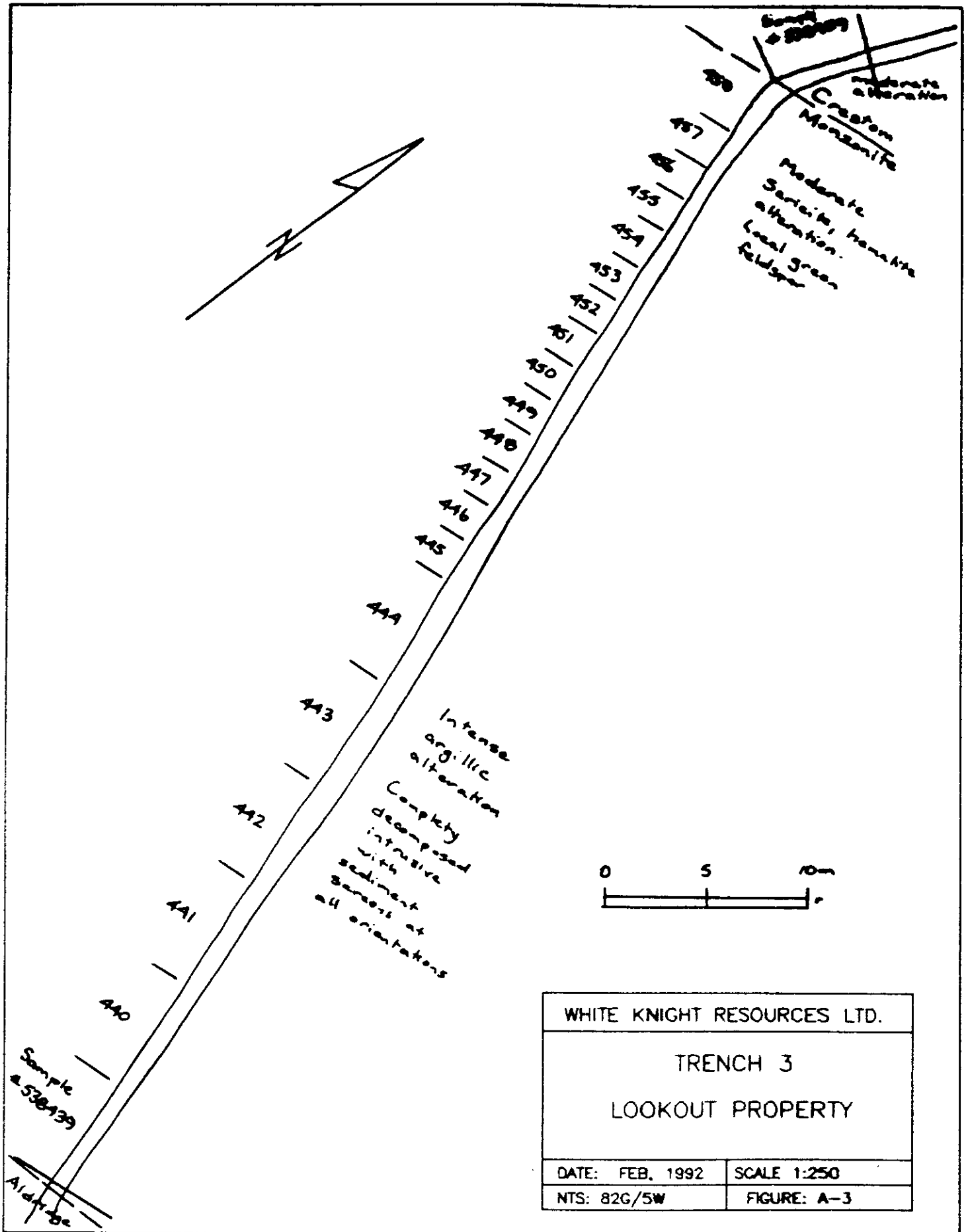
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- 437

Sample # 538438

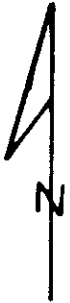
Monzonite  
Weakly altered  
Aldridge sediments



WHITE KNIGHT RESOURCES LTD.	
TRENCH 2	
LOOKOUT PROPERTY	
DATE: FEB, 1992	SCALE 1:250
NTS: 82G/5W	FIGURE: A-2







Sample 538460

Monzonite

Strong hematite, moderate argillic alteration

461

462

463

Narrow zone of intense argillic alteration

464

465

466

467

Zone of green feldspar

468

469

470

471

472

Intrusive mixed with overburden

473

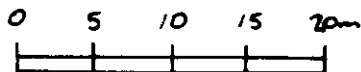
Moderate sericite alteration

474

No microstockwork

Sample # 538475

Aldridge  
Sediments



WHITE KNIGHT RESOURCES LTD.

TRENCH 4

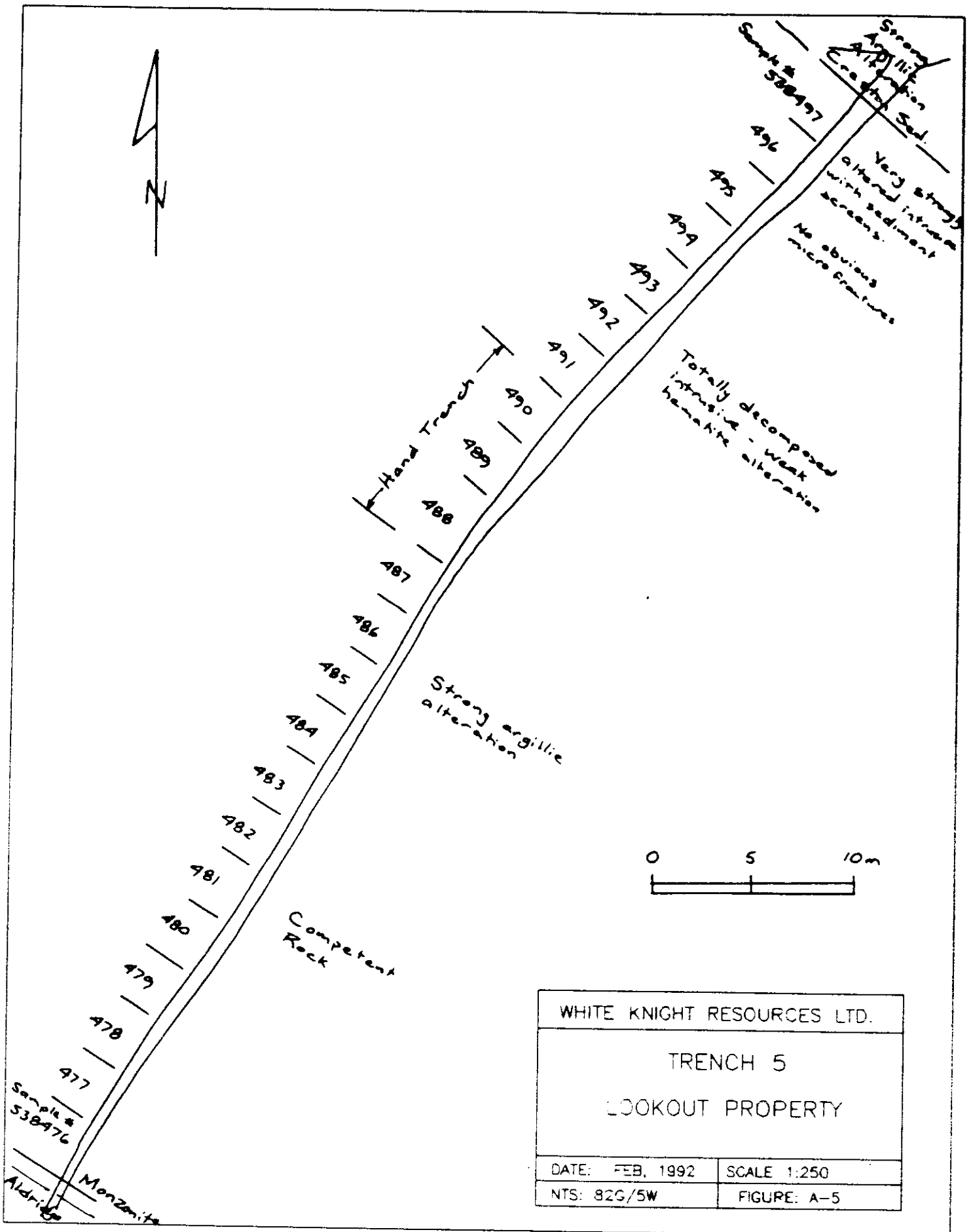
LOOKOUT PROPERTY

DATE: FEB, 1992

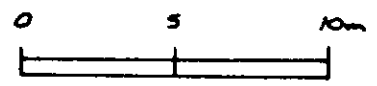
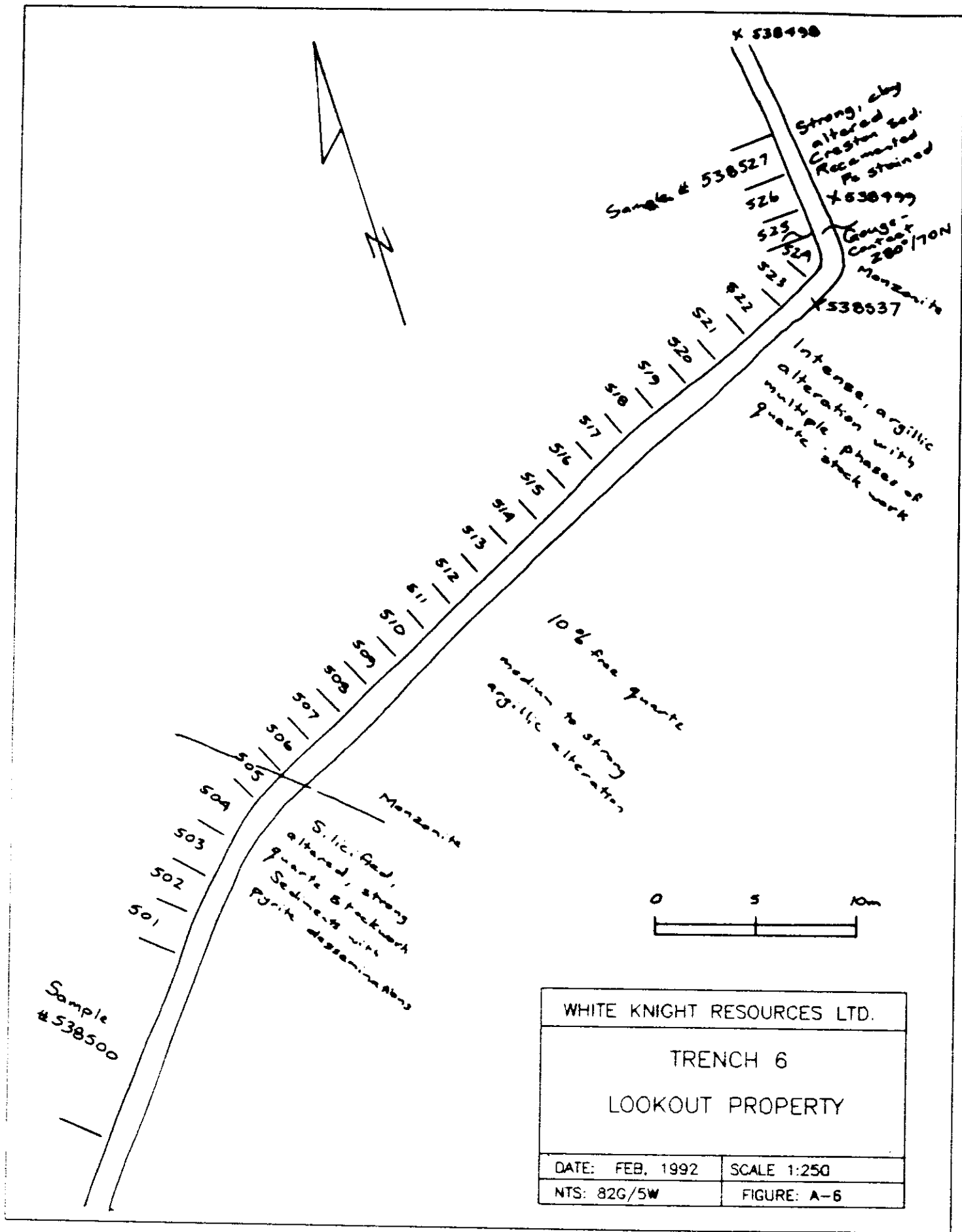
SCALE 1:500

NTS: 82G/5W

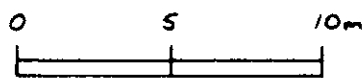
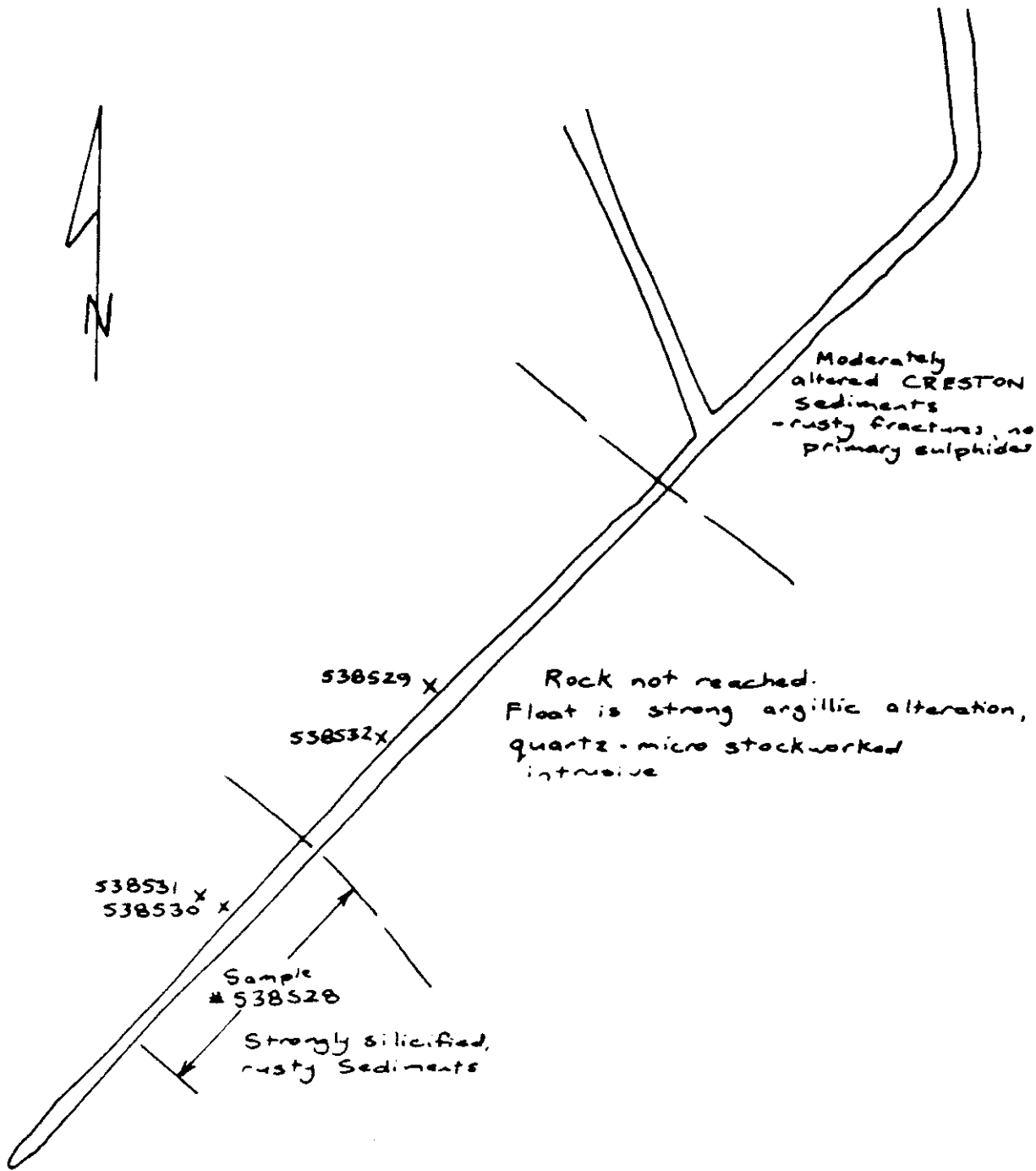
FIGURE: A-4



WHITE KNIGHT RESOURCES LTD.	
TRENCH 5	
LOOKOUT PROPERTY	
DATE: FEB, 1992	SCALE 1:250
NTS: 82G/5W	FIGURE: A-5



WHITE KNIGHT RESOURCES LTD.	
TRENCH 6	
LOOKOUT PROPERTY	
DATE: FEB. 1992	SCALE 1:250
NTS: 82G/5W	FIGURE: A-6



WHITE KNIGHT RESOURCES LTD.	
TRENCH 7	
LOOKOUT PROPERTY	
DATE: FEB, 1992	SCALE 1:250
NTS: 82G/5W	FIGURE: A-7

**APPENDIX B**  
**SOIL GEOCHEMISTRY RECORDS**



GEOCHEMICAL ANALYSIS CERTIFICATE



White Knight Resources File # 91-2958 Page 1  
 922 - 510 W. Hastings St., Vancouver BC V6S 1L8 Submitted by: GORDON LEASK

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb
L0-140m 2+50mM	1	11	11	237	.2	29	9	703	1.91	16	5	ND	4	19	.2	2	4	24	.14	.118	6	9	.19	250	.19	2	3.30	.03	.08	2	.6
L0-140m 2+25mM	1	12	18	151	.1	66	16	603	2.75	23	5	ND	8	29	.2	2	2	28	.20	.064	7	8	.23	288	.24	2	4.89	.04	.09	2	1.2
L0-140m 2+00mM	1	14	18	115	.3	57	17	334	2.62	53	5	ND	10	23	.2	2	4	20	.13	.046	19	7	.22	300	.14	6	3.05	.02	.09	1	1.0
L0-140m 1+75mM	1	10	22	150	.2	42	11	587	2.58	19	5	ND	6	24	.2	2	3	22	.19	.066	16	11	.24	180	.16	4	2.81	.02	.11	1	.2
L0-140m 1+50mM	1	8	40	240	1.6	27	13	915	1.46	43	5	ND	4	24	.8	2	2	16	.14	.112	12	5	.11	231	.09	3	2.23	.02	.07	1	2.0
L0-140m 1+25mM	1	11	78	201	.6	23	21	255	2.01	48	5	ND	6	23	.4	2	2	15	.09	.018	23	11	.28	100	.05	2	1.67	.01	.11	1	11.9
L0-140m 1+00mM	1	13	24	90	2.4	20	20	439	2.16	38	5	ND	6	19	.2	2	2	15	.08	.042	20	12	.36	116	.05	2	2.12	.01	.08	1	.6
L0-140m 0+75mM	2	18	57	118	1.6	22	13	331	2.31	22	5	ND	6	16	.2	2	2	18	.06	.029	20	11	.28	129	.07	2	2.38	.01	.09	1	2.5
L0-140m 0+50mM	4	26	60	139	.5	29	16	245	2.96	23	5	ND	7	16	.2	2	2	20	.06	.029	20	9	.27	165	.05	2	2.85	.01	.09	1	10.0
L0-140m 0+25mM	2	14	20	146	.4	32	13	1002	2.12	14	5	ND	5	23	.4	2	3	26	.14	.076	7	12	.20	127	.21	3	3.40	.03	.08	1	3.7
L0-140m 0+00mM	4	21	28	130	.2	20	14	319	3.34	22	5	ND	6	13	.2	3	3	30	.07	.070	13	14	.31	125	.16	2	3.07	.02	.09	2	6.0
L0-190m 3+00mM	1	11	20	132	.1	27	8	552	1.55	10	5	ND	4	17	.2	2	2	18	.10	.107	13	9	.20	157	.10	2	2.09	.02	.10	1	2.3
L0-190m 2+75mM	1	7	12	100	.1	26	11	627	1.71	12	5	ND	5	16	.2	2	2	15	.09	.067	23	9	.30	182	.06	2	2.27	.02	.10	1	5.0
L0-190m 2+50mM	2	14	36	210	.2	26	20	941	3.28	339	5	ND	8	15	.2	2	3	25	.08	.082	15	11	.27	299	.10	4	2.60	.02	.10	1	2.0
L0-190m 2+25mM	1	15	22	191	.3	64	14	552	2.47	47	5	ND	5	38	.3	2	2	26	.34	.064	8	8	.25	274	.23	4	3.38	.04	.13	1	.2
L0-190m 2+00mM	1	12	16	105	.2	19	11	219	1.73	13	5	ND	7	12	.2	2	2	14	.08	.048	25	8	.26	127	.07	3	2.09	.02	.08	1	.3
L0-190m 1+75mM	1	8	24	210	1.1	22	19	746	1.69	21	5	ND	3	11	.2	2	2	20	.07	.099	11	9	.16	157	.11	2	2.30	.02	.08	1	3.8
L0-190m 1+50mM	1	14	68	104	1.0	16	12	217	2.15	26	5	ND	3	30	.2	2	2	26	.16	.264	5	8	.15	114	.21	2	3.92	.03	.07	1	10.4
L0-190m 1+25mM	1	8	18	73	.2	15	20	197	2.20	10	5	ND	5	9	.2	2	2	22	.06	.028	19	12	.24	118	.08	2	2.19	.01	.08	1	1.4
L0-190m 1+00mM	1	15	15	88	.2	27	21	383	2.47	13	5	ND	5	16	.2	2	3	28	.08	.110	9	12	.25	129	.18	2	3.89	.02	.13	1	5.8
L0-190m 0+75mM	2	12	18	95	.3	26	24	333	2.68	12	5	ND	5	16	.2	2	3	26	.10	.134	11	17	.27	128	.12	3	2.89	.02	.09	1	18.9
L0-190m 0+50mM	1	17	15	149	.1	26	14	1624	2.32	12	5	ND	3	32	.2	2	2	25	.18	.374	9	10	.24	188	.20	2	3.48	.04	.10	1	3.6
L0-190m 0+25mM	1	18	22	196	.2	47	18	397	2.96	21	5	ND	6	32	.2	2	2	25	.20	.048	17	14	.39	184	.15	2	3.24	.03	.13	1	.2
L0-190m 0+00mM	1	21	21	151	.2	34	15	466	3.19	33	5	ND	6	29	.2	2	2	28	.19	.100	17	14	.38	165	.17	3	3.22	.02	.11	1	.3
L0-240m 3+00mM	3	61	23	77	.1	35	13	411	4.50	28	5	ND	10	59	.2	2	3	21	.29	.086	27	17	.64	122	.08	2	3.10	.02	.13	1	25.5
L0-240m 2+75mM	2	29	16	80	.1	45	16	410	3.32	40	5	ND	8	54	.2	2	2	20	.36	.054	23	18	.59	129	.08	2	2.77	.02	.18	1	11.8
L0-240m 2+50mM	1	16	10	78	.1	47	18	225	4.03	21	5	ND	5	44	.2	2	2	26	.26	.054	17	23	1.16	88	.08	2	3.37	.02	.10	1	1.9
L0-240m 2+25mM	1	9	12	117	.1	56	15	265	3.17	14	5	ND	4	62	.2	2	2	21	.32	.207	10	16	.82	150	.11	3	3.65	.03	.18	1	.4
L0-240m 2+00mM	2	15	38	145	.3	45	32	557	3.63	98	5	ND	9	48	.2	3	3	24	.35	.117	18	14	.58	205	.16	3	3.21	.02	.16	1	1.4
L0-240m 1+75mM	2	22	36	180	.2	53	71	1107	3.43	135	5	ND	10	27	.2	2	2	19	.21	.043	20	12	.28	242	.08	2	2.76	.01	.16	1	14.3
L0-240m 1+50mM	3	10	365	127	2.0	29	54	1097	3.28	42	5	ND	4	26	.2	2	7	31	.18	.089	27	16	.25	166	.16	2	2.77	.02	.12	1	48.0
L0-240m 1+25mM	2	14	37	166	.9	69	30	306	3.25	45	5	ND	6	24	.2	2	4	28	.12	.050	13	18	.33	106	.16	4	2.91	.03	.12	1	12.7
L0-240m 1+00mM	4	19	75	148	1.3	117	44	285	4.94	71	5	ND	6	26	.2	2	4	34	.08	.067	22	43	.35	62	.10	2	2.54	.02	.10	1	12.7
L0-240m 0+75mM	6	22	56	102	.1	112	71	738	6.38	128	5	ND	13	17	.2	4	4	28	.05	.077	28	27	.39	73	.05	2	1.99	.01	.08	1	12.9
L0-240m 0+50mM	5	23	39	80	.1	42	26	336	5.29	94	5	ND	10	15	.2	2	3	17	.04	.059	34	12	.25	56	.03	2	1.43	.01	.06	1	16.4
L0-240m 0+25mM	1	21	14	97	.4	42	10	429	2.13	22	5	ND	6	33	.2	2	2	24	.21	.068	11	10	.21	124	.22	2	4.05	.04	.08	1	2.3
STANDARD C/AU-S	18	58	38	132	6.9	70	33	1036	3.95	40	17	7	37	53	18.4	15	19	57	.48	.090	38	58	.88	176	.09	31	1.88	.06	.15	13	48.0

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 ASSAY RECOMMENDED FOR CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB.  
 - SAMPLE TYPE: P1 TO P3 SOIL P4 CORE AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 28 1991 DATE REPORT MAILED: Aug 2/91 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Tl %	B ppm	Al %	Na %	K %	W ppm	Au <sup>u</sup> ppb
LO-240m 0+00mH	1	27	29	140	.4	60	14	380	3.04	37	6	ND	8	25	.2	2	2	20	.14	.036	15	10	.27	220	.12	3	2.51	.02	.12	1	7.1
LO-290m 3+00mH	1	11	13	61	.2	19	6	172	1.29	3	5	ND	5	21	.3	2	5	11	.15	.076	19	7	.22	111	.05	2	1.28	.02	.11	1	3.4
LO-290m 2+75mH	2	26	17	81	.1	37	11	298	3.07	25	5	ND	9	39	.2	2	2	19	.20	.034	22	18	.62	81	.07	2	2.21	.01	.16	1	19.5
LO-290m 2+50mH	3	47	24	97	.1	62	15	534	4.15	21	5	ND	12	69	.5	4	2	26	.45	.053	27	23	.94	158	.11	2	3.53	.01	.18	6	4.8
LO-290m 2+25mH	3	59	34	61	.1	39	14	381	4.02	33	5	ND	9	79	.4	6	5	27	.41	.040	25	25	1.29	100	.11	3	2.95	.01	.56	6	8.5
LO-290m 2+00mH	1	20	25	131	.1	55	26	741	4.04	32	5	ND	8	59	.5	2	2	22	.38	.119	23	18	1.02	195	.08	4	3.08	.02	.18	1	10.0
LO-290m 1+75mH	8	17	74	137	.3	84	57	770	4.70	41	5	ND	14	49	1.1	6	4	27	.24	.093	22	19	.42	146	.12	6	2.90	.02	.12	5	16.4
LO-290m 1+50mH	1	12	57	109	.1	59	40	2203	4.07	30	5	ND	8	42	.3	3	2	26	.32	.087	21	16	.34	197	.11	3	2.81	.02	.11	3	6.4
LO-290m 1+25mH	3	19	55	85	.2	91	41	812	5.42	50	5	ND	15	31	.2	2	4	24	.15	.068	26	22	.39	86	.07	2	2.38	.02	.11	1	8.2
LO-290m 1+00mH	1	11	25	77	.1	34	12	517	2.21	22	5	ND	5	46	.3	2	10	20	.29	.139	9	9	.17	156	.15	3	2.97	.04	.07	2	1.1
LO-290m 0+75mH	1	10	41	122	.4	39	19	1954	2.84	30	5	ND	8	38	.3	2	2	24	.26	.056	15	13	.25	213	.12	3	2.56	.02	.13	1	4.0
LO-290m 0+50mH	1	18	24	107	.1	37	15	607	3.01	29	5	ND	6	24	.3	2	2	24	.12	.106	15	12	.29	155	.12	4	2.56	.02	.08	3	3.3
LO-290m 0+25mH	1	18	17	121	.2	37	10	438	2.26	24	5	ND	6	35	.2	2	5	24	.21	.110	9	11	.24	204	.16	3	3.19	.03	.11	1	1.6
LO-290m 0+00mH	1	14	19	108	.1	49	15	259	2.23	27	5	ND	7	29	.2	2	5	23	.16	.087	10	10	.25	200	.19	3	3.61	.03	.07	1	1.9
LO-340m 3+00mH	1	9	12	42	.2	11	5	175	1.27	6	5	ND	8	13	.2	2	8	6	.08	.025	32	4	.26	54	.02	2	.84	.01	.08	1	1.6
LO-340m 2+75mH	1	11	12	52	.1	16	5	150	1.31	3	5	ND	4	16	.2	2	2	7	.09	.036	26	6	.24	89	.03	2	1.15	.01	.09	1	1.2
LO-340m 2+50mH	5	54	15	59	.1	30	16	262	4.17	17	5	ND	17	58	.2	2	2	13	.43	.050	36	11	.57	59	.02	2	2.11	.01	.20	2	.5
LO-340m 2+25mH	3	41	22	93	.1	72	15	519	4.34	13	5	ND	18	65	.2	2	2	26	.33	.040	31	19	.81	131	.13	2	3.68	.02	.35	1	2.4
LO-340m 2+00mH	2	50	32	78	.2	44	19	295	4.39	21	5	ND	12	85	.3	2	5	30	.30	.066	27	26	1.50	89	.14	2	3.65	.02	.58	1	1.5
LO-340m 1+75mH	1	20	22	145	.1	33	18	391	3.73	17	5	ND	11	56	.2	2	3	22	.21	.189	27	18	.95	233	.09	3	2.65	.02	.20	1	5.4
LO-340m 1+50mH	1	8	48	97	.1	56	36	1945	4.75	41	5	ND	17	47	.2	2	2	25	.27	.066	31	18	.49	241	.07	2	2.82	.02	.14	3	4.1
LO-340m 1+25mH	1	21	44	78	.2	55	33	717	5.44	29	5	ND	22	19	.5	2	2	24	.16	.063	37	13	.42	93	.04	2	2.42	.01	.10	2	37.7
LO-340m 1+00mH	1	10	32	89	.4	31	21	833	2.94	36	5	ND	8	33	.2	2	4	22	.26	.077	13	8	.20	142	.12	2	2.37	.03	.10	1	10.9
LO-340m 0+75mH	1	19	74	148	.2	56	21	794	4.11	51	5	ND	10	35	.2	2	2	23	.22	.080	18	12	.29	123	.11	2	3.08	.02	.16	1	5.4
LO-340m 0+50mH	2	54	884	130	1.0	46	24	316	4.17	145	5	ND	13	39	.4	2	4	20	.22	.079	26	9	.21	145	.09	2	2.25	.02	.14	1	131.1
LO-340m 0+25mH	1	7	225	156	.2	46	25	748	2.90	39	5	ND	9	28	.2	2	4	19	.20	.067	20	10	.24	158	.11	3	2.29	.03	.16	1	52.0
LO-340m 0+00mH	1	18	136	213	.5	39	22	273	3.00	60	5	ND	11	23	.4	2	7	16	.12	.044	29	10	.28	177	.07	2	1.99	.01	.12	1	50.8
LO-390m 4+00mH	1	9	17	117	.1	28	6	710	1.45	5	5	ND	4	52	.2	2	3	16	.27	.152	11	8	.21	275	.12	3	2.38	.04	.14	1	8.6
LO-390m 3+75mH	1	5	14	41	.2	11	5	130	1.39	3	5	ND	6	15	.2	2	7	6	.09	.019	33	4	.27	36	.02	2	.83	.01	.13	1	11.2
LO-390m 3+50mH	1	28	33	106	.1	39	15	618	2.68	37	5	ND	13	27	.2	2	2	13	.15	.030	30	10	.36	114	.05	2	1.93	.01	.18	1	11.1
LO-390m 3+25mH	2	20	18	88	.1	42	13	461	3.04	10	5	ND	11	40	.2	2	2	18	.31	.032	28	13	.50	143	.09	3	2.50	.01	.28	3	7.6
LO-390m 3+00mH	1	42	13	121	.1	40	8	619	1.82	5	5	ND	6	71	.3	2	6	16	.43	.100	16	10	.34	211	.11	3	2.37	.03	.18	1	7.1
LO-390m 2+75mH	1	9	29	210	.4	23	17	705	2.70	10	5	ND	10	49	.2	2	3	21	.25	.173	16	13	.29	292	.10	4	1.87	.02	.15	1	22.7
LO-390m 2+25mH	2	26	249	120	.2	30	21	442	3.35	45	5	ND	11	18	.2	2	3	19	.11	.065	26	8	.27	86	.07	2	1.56	.02	.07	1	47.9
LO-390m 2+00mH	1	15	197	150	.5	30	24	641	2.40	28	5	ND	8	25	.2	3	4	19	.23	.028	27	9	.22	146	.07	2	1.84	.02	.10	1	96.6
LO-390m 1+75mH	1	10	110	87	.1	23	19	384	1.85	16	5	ND	6	32	.2	2	4	13	.26	.051	42	7	.19	114	.03	2	1.51	.02	.08	1	51.0
STANDARD C/AU-S	18	61	36	132	7.6	70	31	1064	3.97	42	17	6	39	52	18.8	15	17	57	.48	.092	39	59	.88	178	.09	33	1.93	.06	.15	13	47.0



AA ANALYTICAL



AA ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au <sup>6</sup> ppb
L0-390m 1+50mM	1	7	16	74	.1	36	34	471	3.95	28	7	ND	16	18	.2	2	2	17	.15	.030	41	9	.21	99	.03	2	1.39	.01	.12	1	22.8
L0-390m 1+25mM	1	19	130	197	1.2	35	39	167	2.60	36	5	ND	10	30	.4	4	5	19	.29	.052	23	8	.19	123	.10	4	2.65	.03	.17	1	20.5
L0-390m 1+00mM	1	11	13	116	.1	39	17	348	1.81	19	7	ND	6	33	.2	2	2	17	.26	.062	12	8	.19	170	.11	3	2.14	.04	.13	1	1.4
L0-390m 0+75mM	1	12	17	108	.1	28	14	595	2.39	15	7	ND	8	25	.2	2	2	20	.18	.083	18	9	.22	192	.10	2	2.73	.02	.13	1	2.3
L0-390m 0+50mM	1	9	15	177	.1	25	7	383	1.93	20	5	ND	5	31	.4	2	2	19	.31	.129	11	8	.18	102	.11	3	2.46	.04	.14	1	3.2
L0-390m 0+25mM	1	12	13	120	.1	23	8	412	1.94	15	5	ND	6	22	.2	2	2	18	.19	.055	17	9	.19	184	.09	3	2.17	.03	.12	1	1.3
L0-390m 0+00mM	1	30	12	56	.1	37	11	380	2.45	27	5	ND	6	24	.2	2	2	15	.21	.052	20	9	.17	149	.06	3	1.77	.02	.10	1	1.4
STANDARD C/AU-S	19	61	38	132	7.3	69	30	1037	3.95	44	22	6	38	49	18.4	16	21	60	.48	.089	36	58	.88	177	.09	34	1.88	.06	.15	11	47.1



**APPENDIX C**

**ROCK ASSAY RECORDS**



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE 604 984 0221

to WHITE KNIGHT RESOURCES

922 - 510 W. HASTINGS ST  
VANCOUVER, BC  
V6B 1L8

Project: LOOKOUT  
Comments: ATTN: JIM McDONALD

Page Number: 1  
Total Pages: 2  
Certificate Date: 16-OCT-91  
Invoice No.: 19122987  
P.O. Number:

## CERTIFICATE OF ANALYSIS

A9122987

SAMPLE	PREP CODE	Au oz/T	Cu ppm										
538401H	207 294	0.014	-----										
538402H	207 294	0.022	-----										
538403H	207 294	0.026	-----										
538404H	207 294	0.026	-----										
538405H	207 294	0.030	-----										
538406H	207 294	0.015	-----										
538407H	207 294	0.013	-----										
538408H	207 294	0.005	-----										
538409H	207 294	0.023	-----										
538410H	207 294	0.008	-----										
538411H	207 294	0.009	-----										
538412H	207 294	0.011	-----										
538413H	207 294	0.011	-----										
538414H	207 294	0.004	-----										
538415H	207 294	0.004	-----										
538416H	207 294	0.008	-----										
538417H	207 294	0.007	-----										
538418H	207 294	0.003	-----										
538419H	207 294	0.002	-----										
538420H	207 294	0.001	-----										
538421H	207 294	< 0.001	-----										
538422H	207 294	< 0.001	-----										
538423H	207 294	< 0.001	-----										
538424H	207 294	0.003	-----										
538425H	207 294	0.004	-----										
538426H	207 294	0.002	-----										
538427H	207 294	0.001	-----										
538428H	207 294	0.005	-----										
538429H	207 294	0.002	-----										
538430H	207 294	< 0.001	-----										
538431H	207 294	< 0.001	-----										
538432H	207 294	< 0.001	-----										
538433H	207 294	0.001	-----										
538434H	207 294	< 0.001	-----										
538435H	207 294	< 0.001	-----										
538436H	207 294	< 0.001	-----										
538437H	207 294	0.001	-----										
538438H	207 294	0.001	-----										
538439H	207 294	0.004	-----										
538440H	207 294	0.006	-----										

CERTIFICATION



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

WHITE KNIGHT RESOURCES

922 - 510 W. HASTINGS ST  
VANCOUVER, BC  
V6B 1L8

Project: LOOKOUT  
Comments: ATTN: JIM McDONALD

Page No. Jr 2  
Total Pages 2  
Certificate Date: 16-OCT-91  
Invoice No.: 19122987  
P.O. Number:

## CERTIFICATE OF ANALYSIS

A9122987

SAMPLE	PREP CODE	Au oz/T	Cu ppm								
538441H	207 294	< 0.001	-----								
538442H	207 294	< 0.003	-----								
538443H	207 294	< 0.001	-----								
538444H	207 294	< 0.001	-----								
538445H	207 294	< 0.001	-----								
538446H	207 294	< 0.001	-----								
538447H	207 294	< 0.001	-----								
538448H	207 294	< 0.001	-----								
538449H	207 294	< 0.001	-----								
538450H	207 294	< 0.001	-----								
538451H	207 294	< 0.001	-----								
538452H	207 294	< 0.001	-----								
538453H	207 294	< 0.001	-----								
538454H	207 294	< 0.001	-----								
538455H	207 294	< 0.001	-----								
538456H	207 294	< 0.001	-----								
538457H	207 294	< 0.001	-----								
538458H	207 294	< 0.001	-----								
538459H	207 294	< 0.001	-----								
538460H	207 294	< 0.001		2							
538461H	207 294	< 0.001		2							
538462H	207 294	< 0.001		4							
538463H	207 294	< 0.001		4							
538464H	207 294	< 0.001		34							
538465H	207 294	< 0.001		4							
538466H	207 294	< 0.001		4							
538467H	207 294	< 0.001		4							
538468H	207 294	< 0.001		4							
538469H	207 294	< 0.001		4							
538470H	207 294	< 0.001		2							
538471H	207 294	< 0.001		5							
538472H	207 294	< 0.001		3							
538473H	207 294	< 0.001		4							
538474H	207 294	< 0.001		4							
538475H	207 294	< 0.001	-----								

CERTIFICATION: *Thak Vankh*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE 604 984 0221

10 WHITE KNIGHT RESOURCES

922 - 510 W HASTINGS ST.  
VANCOUVER, BC  
V6B 1L8

Project LOOKOUT  
Comments: ATTN JIM McDONALD

Page Number 1  
Total Pages 2  
Certificate Date: 16-OCT-91  
Invoice No. 19122988  
P O Number

## CERTIFICATE OF ANALYSIS

### A9122988

SAMPLE	PREP CODE	Au oz/T										
538476H	207 294	0.017										
538477H	207 294	0.026										
538478H	207 294	0.009										
538479H	207 294	0.010										
538480H	207 294	0.010										
538481H	207 294	0.007										
538482H	207 294	0.003										
538483H	207 294	0.003										
538484H	207 294	0.007										
538485H	207 294	0.038										
538486H	207 294	0.030										
538487H	207 294	0.014										
538488H	207 294	0.015										
538489H	207 294	0.025										
538490H	207 294	0.008										
538491H	207 294	0.008										
538492H	207 294	0.005										
538493H	207 294	0.007										
538494H	207 294	0.006										
538495H	207 294	0.002										
538496H	207 294	0.002										
538497H	207 294	0.075										
538498H	207 294	0.002										
538499H	207 294	0.166										
538500H	207 294	0.041										
538501H	207 294	0.002										
538502H	207 294	0.002										
538503H	207 294	0.099										
538504H	207 294	0.004										
538505H	207 294	0.005										
538506H	207 294	0.004										
538507H	207 294	0.004										
538508H	207 294	0.006										
538509H	207 294	0.024										
538510H	207 294	0.005										
538511H	207 294	0.004										
538512H	207 294	0.004										
538513H	207 294	0.009										
538514H	207 294	0.006										
538515H	207 294	0.005										

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE 604-984 0221

WHITE KNIGHT RESOURCES

922 - 510 W HASTINGS ST  
VANCOUVER, BC  
V6B 1L8

Project : LOOKOUT  
Comments : ATTN: JIM MCDONALD

Page Num. 2  
Total Pages 2  
Certificate Date 16 OCT 91  
Invoice No 19122988  
P.O. Number

## CERTIFICATE OF ANALYSIS A9122988

SAMPLE	PREP CODE	Au oz/T										
538516H	207 294	0.006										
538517H	207 294	0.138										
538518H	207 294	0.176										
538519H	207 294	0.067										
538520H	207 294	0.046										
538521H	207 294	0.138										
538522H	207 294	0.052										
538523H	207 294	0.057										
538524H	207 294	0.023										
538525H	207 294	0.025										
538526H	207 294	0.005										
538527H	207 294	0.001										
538528H	207 294	0.002										
538529H	207 294	0.004										
538530H	207 294	0.001										
538531H	207 294	0.001										
538532H	207 294	0.012										
538533H	207 294	0.013										
538534H	207 294	0.006										
538535H	207 294	0.003										
538536H	207 294	0.002										
538537H	207 294	0.002										
538538H	207 294	0.001										
538539H	207 294	0.005										
538541H	207 294	0.001										
538542H	207 294	0.001										
538543H	207 294	0.002										
538544H	207 294	0.024										
538545H	207 294	0.009										
538546H	207 294	0.006										
538547H	207 294	0.004										
538548H	207 294	0.003										
538549H	207 294	0.004										
538550H	207 294	0.003										
538551H	207 294	0.011										
538552H	207 294	0.022										
538553H	207 294	0.005										
538554H	207 294	0.006										
538555H	207 294	0.011										

CERTIFICATION:

*Theresa Vank*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604 984 0221

To: WHITE KNIGHT RESOURCES

922 - 510 W. HASTINGS ST  
 VANCOUVER, BC  
 V6B 1L8

Project: LOOKOUT  
 Comments: ATTN: JIM MACDONALD

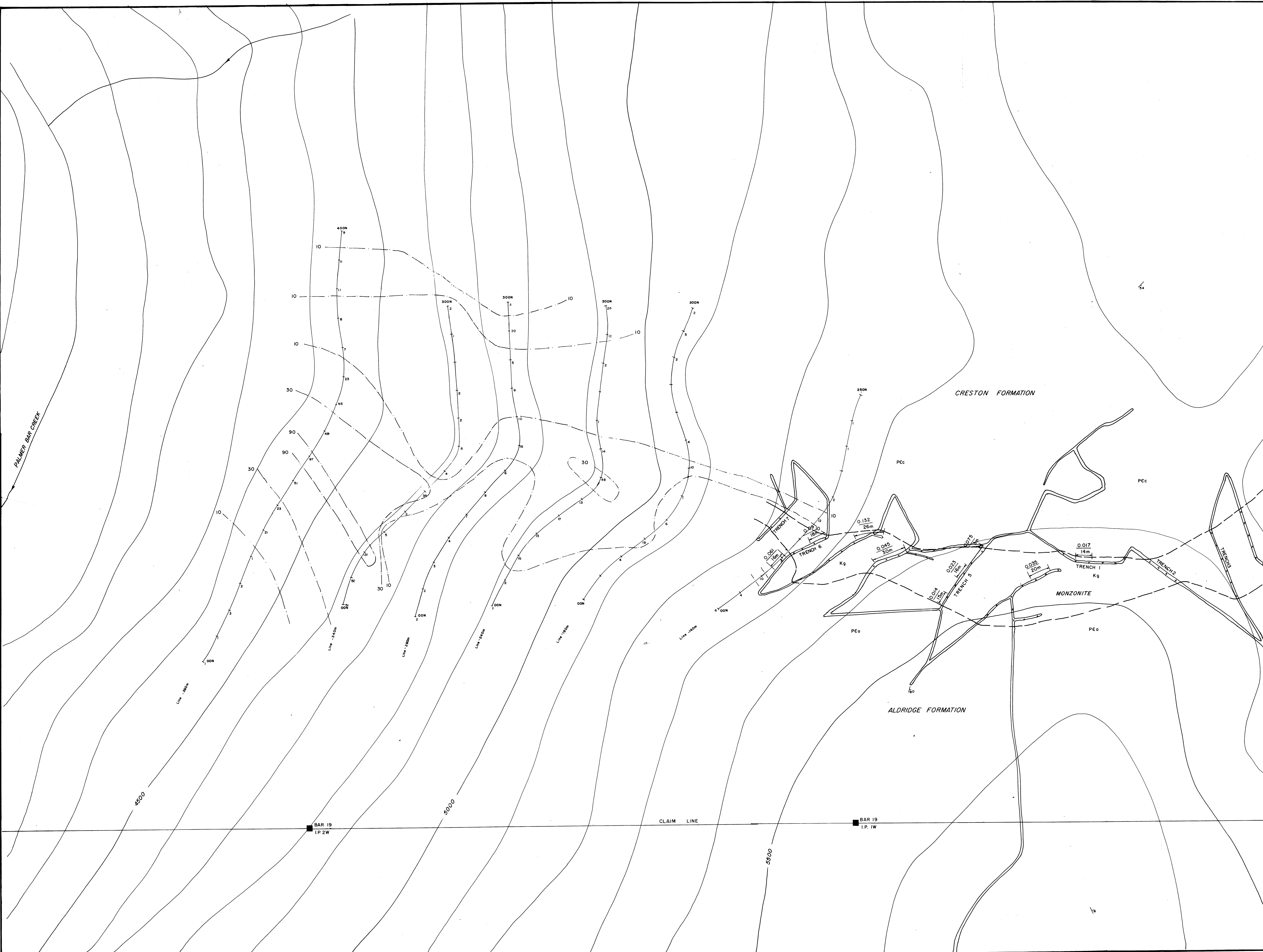
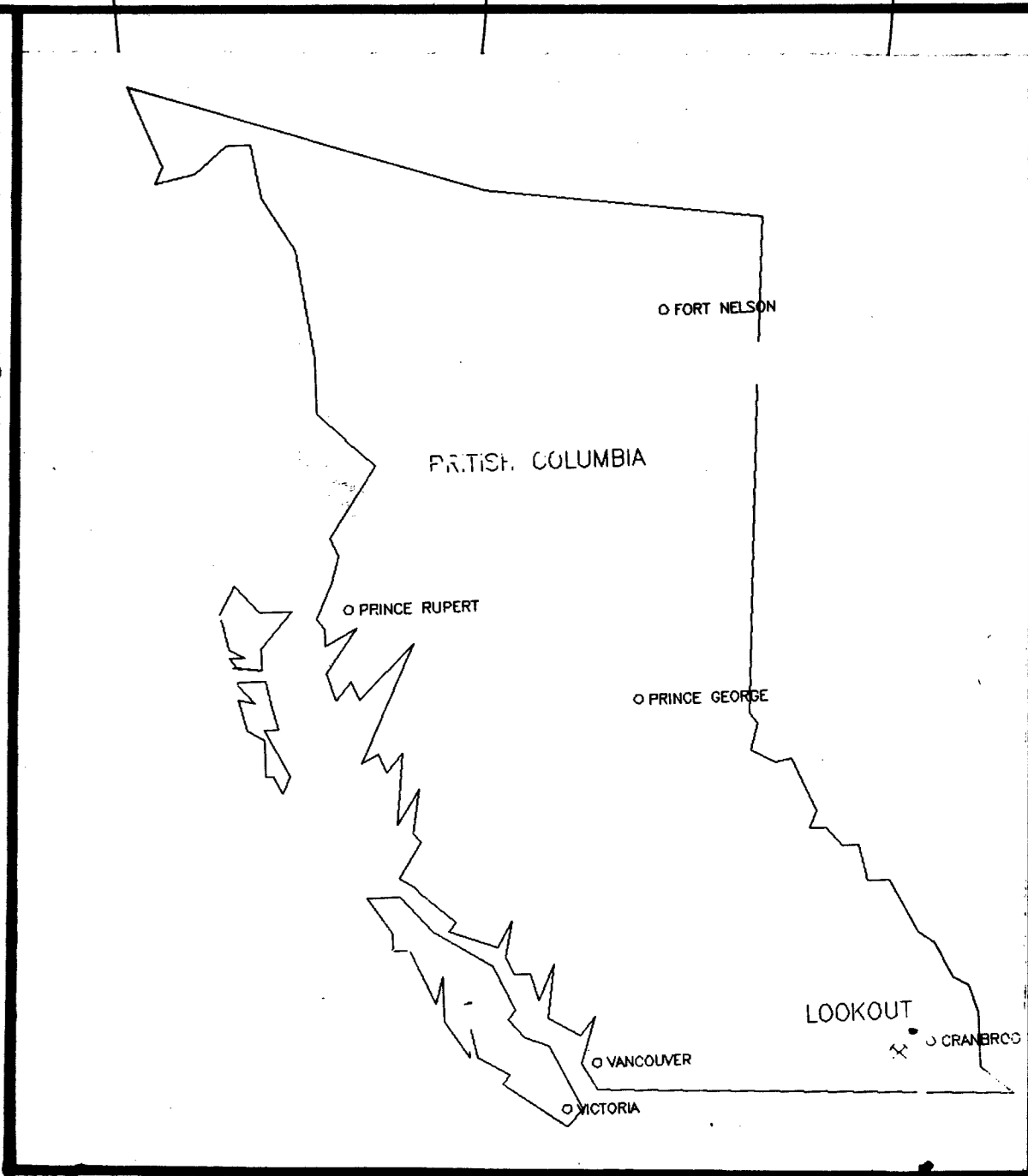
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 Total Pages 1  
 Certificate Date 07 NOV 91  
 Invoice No 19124155  
 P O Number  
 Account JLO

## CERTIFICATE OF ANALYSIS A9124155

SAMPLE	PREP CODE	Au oz/T	Au oz/T	Au tot oz/t	Au - oz/t	Au + mg	Wt. - grams	Wt. + grams			
538476H REJECT	266 --	0.011	0.026	-----	-----	-----	-----	-----			
538477H REJECT	266 --	0.024	0.030	-----	-----	-----	-----	-----			
538478H REJECT	266 --	0.008	0.008	-----	-----	-----	-----	-----			
538479H REJECT	266 --	0.008	0.007	-----	-----	-----	-----	-----			
538480H REJECT	266 --	-----	0.008	0.009	0.009	< 0.002	1896	1.00			
538484H REJECT	266 --	0.008	0.008	-----	-----	-----	-----	-----			
538485H REJECT	266 --	0.032	0.028	-----	-----	-----	-----	-----			
538486H REJECT	266 --	0.018	0.017	-----	-----	-----	-----	-----			
538487H REJECT	266 --	0.012	0.012	-----	-----	-----	-----	-----			
538488H REJECT	266 --	0.028	0.019	-----	-----	-----	-----	-----			
538489H REJECT	266 --	0.014	0.018	-----	-----	-----	-----	-----			
538490H REJECT	266 --	0.008	0.008	-----	-----	-----	-----	-----			
538491H REJECT	266 --	0.008	0.008	-----	-----	-----	-----	-----			
538497H REJECT	266 --	0.074	0.072	-----	-----	-----	-----	-----			
538499H REJECT	266 --	-----	0.180	0.181	0.182	0.004	772	2.80			
538500H REJECT	266 --	-----	0.025	0.051	0.051	0.009	4436	0.56			
538501H REJECT	266 --	-----	< 0.001	< 0.002	< 0.002	< 0.002	519	0.93			
538502H REJECT	266 --	-----	0.001	0.006	0.006	< 0.002	667	0.37			
538503H REJECT	266 --	-----	0.188	0.225	0.225	0.014	694	0.62			
538513H REJECT	266 --	0.003	0.003	-----	-----	-----	-----	-----			
538514H REJECT	266 --	0.006	0.007	-----	-----	-----	-----	-----			
538515H REJECT	266 --	-----	0.007	0.014	0.014	< 0.002	1277	1.07			
538516H REJECT	266 --	0.010	0.006	-----	-----	-----	-----	-----			
538517H REJECT	266 --	-----	0.097	0.085	0.085	0.039	2064	4.90			
538518H REJECT	266 --	-----	0.136	0.147	0.147	0.030	1958	2.10			
538519H REJECT	266 --	-----	0.120	0.101	0.100	0.097	2848	2.50			
538520H REJECT	266 --	-----	0.064	0.092	0.092	0.009	3245	0.30			
538521H REJECT	266 --	-----	0.184	0.163	0.160	0.190	1776	5.74			
538522H REJECT	266 --	0.108	0.094	-----	-----	-----	-----	-----			
538523H REJECT	266 --	0.062	0.057	-----	-----	-----	-----	-----			
538524H REJECT	266 --	0.028	0.025	-----	-----	-----	-----	-----			
538525H REJECT	266 --	-----	0.028	0.031	0.031	0.009	3169	0.52			
538526H REJECT	266 --	0.005	0.005	-----	-----	-----	-----	-----			

CERTIFICATION

*Mark Vank*



PEC Precambrian  
PEC CRESTON FORMATION - Intertidal to subaerial, green, purple and white quartzite, siltstone and argillite  
PEa ALDRIDGE FORMATION - Gray to black quartzites, siltstones and argillites  
Kg Intrusive  
Kg MONZONITE - Quartz monzonite, Cretaceous to early Tertiary.

0.035 Gold (oz/ton) / Trench Interval Width  
20m

--- Geologic Contact  
--- 30 Geologic Attitude  
--- 10 Soil Geochemistry Line, Gold (ppb)  
--- Gold Geochemistry Contour  
--- Topographic Contour

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

22,186

WHITE KNIGHT RESOURCES LTD.

LOOKOUT PROPERTY

DATE: NOV 1991	REVISED:	FIG. 6
DRAWN BY: TLE	APPROVED BY:	
WKS: RES/SW	SCALE: 1:1,000	