



JUL 13 1979

GOLD COMMISSIONER  
FORT STEELE MINING DIVISION  
CRANBROOK, B.C.

## MINERAL ACT

I, <u>Arthur L. Burrows</u>	Agent for <u>Cominco Ltd.</u>
(Name)	(Name)
<u>22-102nd Avenue</u>	<u>Box 2000</u>
(Address)	(Address)
<u>Kimberley, B.C. V1A 1A6</u>	<u>Kimberley, B.C. V1A 2G3</u>
Valid subsisting F.M.C. No. <u>173187</u>	Valid subsisting F.M.C. No. <u>163806</u>

1. I have done, or caused to be done, work on the Old Baldy  
Mineral Claim(s)  
 Record No.(s) Lot 3042  
 Situate at Kimberley, B.C. in the FORT STEELE Mining Division,  
 to the value of at least 17,433.00 dollars. Work was done from the 1st day  
 of September 1978, to the 6th day of October 1978

(Give details as required by section 13 of regulations.)

[illegible]

**COST**

B. PROSPECTING	(Details in report submitted as per section 9 of regulations.) (The itemized cost statement must be part of the report.)	COST
TOTAL PHYSICAL AND PROSPECTING		

(State number of years to be applied to each claim and its month of record.)

(For C and D sections, please turn over.)

**C. DRILLING** (Details in report submitted as per section 8 of regulations.)  
(The itemized cost statement must be part of the report.)

COST
\$ 17,433.00

**D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL**

(Details in report submitted as per section 5, 6, or 7 of regulations.)  
(The itemized cost statement must be part of the report.)  
(State type of work in space below.)

TOTAL OF C AND D

\$ 17,433.00

Who paid for the above-described work? Name Cominco Ltd.

Address Box 2000

Kimberley, B.C. VIA 2G3

**Portable Assessment Credits (PAC) Withdrawal Request**

Amount to be withdrawn from owner(s) account(s):

Name of Owner

(May be no more than 30 per cent  
of value of the approved work  
submitted as assessment work in  
C and (or) D.)

1. Cominco Ltd.
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

AMOUNT

\$ 2,600.00

TOTAL WITHDRAWAL

\$ 2,600.00

TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL

\$ 20,000.00

I wish to apply \$ 20,000.00 of this work to the claims listed below.

(State number of years to be applied to each claim and its month of record.)

Mat 216	12993	Oct.	10 years	Mat 250	12999	Oct.	10 years
Mat 217	12994	Oct.	10 years	Mat 251	13000	Oct.	10 years
Mat 219	13306	Oct.	10 years	Mat 278	13003	Oct.	10 years
Mat 221	13308	Oct.	10 years	Mat 280	13004	Oct.	10 years
Mat 223	12996	Oct.	10 years	Mat 282	13313	Oct.	10 years

Value of work to be credited to portable assessment credit (PAC) account(s).

(May only be credited from the approved value of C and (or) D not applied to claims.)

Name

AMOUNT

In owner(s) name.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

In operator(s) name  
(person paying for  
the work).

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

  
(Signature of Applicant)

BC Geological Survey  
Assessment Report  
07428

COMINCO LTD.

SULLIVAN MINE

KIMBERLEY, B.C.

OLD BALDY GROUP ASSESSMENT REPORT

The following report describes the results of drilling the first 158 metres of diamond drill hole 6432, a 712 metre hole in the Kimberley area. The first 158 metres were drilled on the Old Baldy Crown granted mineral claim located in the Fort Steele Mining Division.

The N.T.S. location is 82 F/9E.

Latitude  $49^{\circ} 42'$  North.

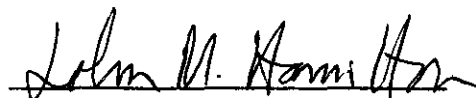
Longitude  $116^{\circ} 0.5'$  West.

Cominco Ltd., owner of the claims, was the operator of the exploration program.

P.W. Ransom is author of this report.

Date of Submission: , 1979.

Endorsed for  
Release by :



J.M. Hamilton, P. Eng.  
Chief Geologist, Kimberley

## INTRODUCTION

### i) Specific Location

Exploration hole No. 6432 is located 1200 metres north-west of the collar of the Sullivan Mine 3900 Level tunnel, located within the City of Kimberley.

An index map showing the location of the exploration hole is attached (Figure 1).

### ii) Property Definition

The property being investigated forms part of the Sullivan Mine claim group, owned by Cominco Ltd.

Cominco Ltd. has operated the mine for about 71 years. The Sullivan orebody is one of the largest base metal deposits in British Columbia and it has contributed a major proportion of the mineral wealth generated in the province.

iii) One hole is being reported on in this report. D.D.H. 6432 was drilled from 0-150 metres in overburden and weathered bedrock using 11.7 and 10.0 cm diameter tricones except for the intervals 0-3 m and 52-72 m that were cored H wireline. From 150-158 bedrock was cored using H wireline tools 9.6 cm in diameter yielding core 7.6 cm in diameter.

iv) D.D.H. 6432 was collared at a dip of  $-50^{\circ}$  and on a bearing of  $N 80^{\circ} E$ . It advanced to 158 metres on the Old Baldy Crown granted mineral claim and was completed to 712 metres on the Angus Crown granted mineral claim.

## DETAILED TECHNICAL DATA AND INTERPRETATION

### i) Purpose

The purpose of exploration hole 6432 was to locate and test the north projection of the Stenwinder vein zone 640 metres north of the Stenwinder deposit.

### ii) Results

Overburden extended to approximately 128 metres. It consisted of gravel with numerous boulders throughout. Sections that were cored recovered diverse and foreign lithologies. At 128 m a change in colour of mud return from brown to grey-green suggests weathered gabbro bedrock had been encountered. Coring commenced at 150 m and weathered gabbro was recovered past 158 m.

### iii) Interpretation

The extensive overburden indicates that the hole may have drilled through a gravel filled ancient stream channel.

The gabbro intersected is interpreted as being equivalent to the Sullivan mine footwall intrusive.

The gabbro is very soft and was extensively weathered, probably during Miocene time.

## CONCLUSIONS

Deep overburden, possibly an ancient stream channel filling, occurs on the eastern portion of the Old Baldy Crown granted mineral claim. The Sullivan mine footwall intrusive subcrops below this overburden and has been subjected to extensive, possibly Miocene, weathering.

### Author's Qualifications

As author of this report, I, Paul W. Ransom certify that:

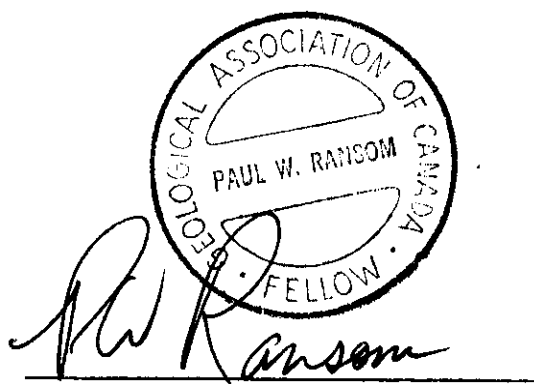
I am a geologist active in minerals exploration.

I am a graduate of McGill University with a degree of Bachelor of Science.

I have been continuously engaged in mining and exploration geology for twelve years.

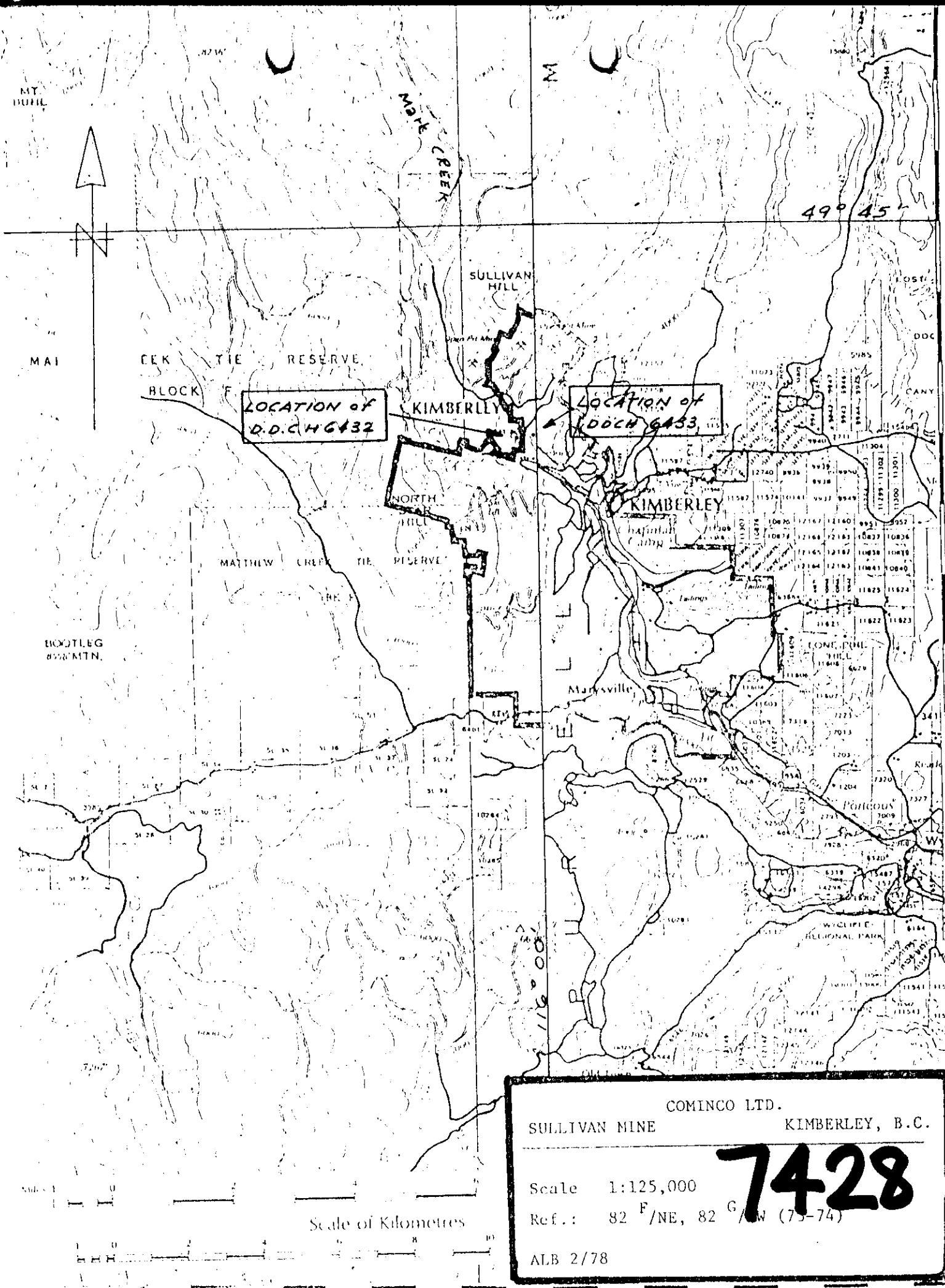
I am a member of the Geological Association of Canada.

I supervised Cominco Ltd.'s Sullivan Mine area exploration drilling program in 1978.



A circular stamp from the Geological Association of Canada is positioned over a handwritten signature. The stamp contains the text "GEOLOGICAL ASSOCIATION OF CANADA" around the top edge, "PAUL W. RANSOM" in the center, and "FELLOW" at the bottom. The signature is written in cursive and appears to read "P.W. Ransom".

P.W. Ransom, G.A.C.



COMINCO LTD.  
SULLIVAN MINE KIMBERLEY, B.C.

Scale 1:125,000  
Ref.: 82 F/NE, 82 G/W (73-74)

ALB 2/78

**7428**



MENIN  
L. 6724

BLUICK  
Fr. L. 3038

HIDDEN HAND  
L. 4086 NO. 2

APRIL  
L. 2521

MARCH  
L. 3699  
R. 5242

JULY  
L. 3700

OPEN PIT WASTE DUMP

EMPIRE  
L. 12517

OLD BALDY  
L. 3042

D.D.C.H. 6433

WARD  
L. 12519

TIPPERARY  
L. 12523

D.D.C.H. 6432 ANGUS  
L. 12518 FR.

COMET  
L. 12261

KATHLEEN Fr.  
L. 12520

ERNESTINE  
L. 12522

STONEWALL  
JACKSON  
L. 3032

PLUMMER  
L. 9876  
FR.

ONTARIO  
L. 2997

MARK CREEK  
L. 2043

CEPHINE  
L. 12524

SPIDER  
L. 13188

PERSHING  
L. 9875

MIDGET  
L. 3033 FR.

L.M.A. FR.  
L. 44579

L. 9828

WOLF  
L. 11000

POLLOX  
L. 13132

PRUN  
L. 23181

UTOPIA  
L. 3034  
NO. 2

STEMWINDER  
L. 2998

MISPAH  
L. 12434

SULLIVAN MINE

TRAM  
L. 4688  
C.A. 5498

ALIOH  
L. 6192 FR.

DINKUM  
L. 5585 FR.

ALL OVER  
L. 1384

DEAN

WINDFALL

COMINCO LTD.

7428

SULLIVAN MINE

KIMBERLEY B.C.

OLD BALDY/ANGUS Fr. C.G.M.C. GROUPS

# Diamond Drill Geological Log

FOR D.D.H. 6432



LAT. 4480.29 N D.P. -50 DFP. 1446.43 E AZIM. N 80 E HORIZ. COMP. 1578.37 DATE COLLARED: Sept. 1, 1978 CORE STORAGE: OPEN PIT DRILLED ON CLAIM(S): OLD BALDY AND ANGUS OBJECTIVE: TO EXPLORE STEMWINDER VEIN TO THE NORTH. PLANNED LENGTH: 2500' TERMINATION COMMENTS: STEMWINDER VEIN NOT ENCOUNTERED.	ELEV. 4377.24 LENGTH 2337.5 VERT. COMP. 1713.97 DATE COMPLETED: Oct. 4, 1978	GENERAL COMMENTS: This hole was collared on the Old Baldy Crown granted mineral claim It crossed into the Angus Cg.M.C. at 518 feet.
DRILLED BY: Shepherd Enterprises Ltd. TYPE DRILL: Longyear 44 CORE SIZE(S): HWL 493-750 NWL 750-2337.5 PERFORMANCE COMMENTS: DRILLING WAS NORMAL		
CASING REMAINING IN HOLE (LENGTH & SIZE): 750' HWL Rods left as casing. TYPE OF CAP & METHOD OF SEALING: None, top rod bent when drill moved out. OTHER MATERIAL REMAINING IN HOLE: NW casing shoe.		
SURVEY INSTRUMENT USED: Sperry Sun (results attached) ADDITIONAL DOWN HOLE TESTS: None.		

## LOG LEGEND

### BED THICKNESS CLASSIFICATION

BEDS	Very Thick Bedded
	100 cm
	Thick Bedded
	30 cm
	Medium Bedded
	10 cm
LAMINAE	Thin Bedded
	3 cm
	Very Thin Bedded
	1 cm
	Laminated
	0.3 cm
	Thinly Laminated

### LITHOLOGY ABBREVIATIONS

OQ - Orthoquartzite  
 QA - Quartz Arenite  
 QW - Quartz Wacke  
 QCW - Quartzitic Wacke  
 W - Wacke  
 SW - Sub Wacke  
 AG - Argillite

D.D.H. 6432

# Diamond Drill Geological Log



40 Scale

Color Plot & Dips Ore Classes & Aver

0

Objective:		Sampled:	
Logged By:		Date:	
Block		Sect.	
Place		App. Bear	
App. Dip		Length:	
From	To	Discard	Reason
0	493		Overburden and weathered bedrock.
			Cored between 0 and 10 - m.g. gabbro and massive f.g. A
			" " 169 and 235 - Boulders of m.g. gabbro, altered Aldridge type sediments, several rusty sandstone fragments, possibly some Creston Fm. sediments and one fragment of Horsethief Creek type of conglomerate. A colour change of mud return from brown to grey-green at 420 feet while triconing indicates gabbro was encountered from that point to 493.
493	549		Medium grained gabbro (1-3mm)
			Weathered 493-449 noticeably harder at 550.
			Granophyric @ 546 (less than 30 cm)
			Core badly broken 540-550
549	606		Granophyre. Grain size 1-3 mm. Small xenolithic fragments noted between 456 and 460
			From 575 on to 602 is meta-gabbro alternating with granophyre, proportion of former = 30% in intervals up to 3' long. Core broken 599 - 602.
606	760		Medium-grained gabbro leucocratic in first few feet suggesting assimilation of some sedimentary material.
			Xenolithic fragments up to 3 cm long noted every few feet to 640: Core is moderately broken to 640 however, recovery is excellent. Good uniform m.g. gabbro and solid core continue to 695; From 695 to end various alteration effects are noted: 695-711 are patchy grey-light greenish segregations overprinted on the m.g. texture, a few possible xenoliths. Core is broken from 708-710, some fragments show an incipient shearing. Siliceous zones up to 10 cm long at 716, 724, 749, and 761 may represent sedimentary material being assimilated. Regularly spaced mm sized siliceous fractures every 1 - 10 mm occur from 740-746. Core size

Core Size

Hole No.

Page

6432

1

2507

COMINCO LTD.

SULLIVAN MINE

KIMBERLEY, B.C.

COST SUMMARY

D.D.C.H. 6432

FOOTAGE

DOLLARS

0 - 929'	Inv. 4377C	20,583
929'-2081'	Inv. 4387C	25,005
2081'-2337'	Inv. 4398C	<u>6,080</u>

\$ 51,668

HOURLY CHARGES

Inv. 4377C	3,035
Inv. 4387C	669
Inv. 4898C	<u>1,811</u>

\$ 5,515

SUPPLIES

Inv. 4377C	Mud	3,208
Inv. 4377C	Casing	213
Inv. 4387C	Mud	3,961
Inv. 4398C	Mud	1,275
Inv. 4412C	Rods	5,662
Inv. 4412C	Shoe	418
Inv. 4412C	3rd Party	<u>336</u>

\$ 15,073

CORE BOXES 98 @ \$4.36

428

COMINCO HEAVY EQUIPMENT RENTAL

1,555

MOBILIZATION/DEMOB (2,337' x \$.245/ft. drilled)

572

COMINCO SUPERVISION, TRUCK RENTAL, CORE LOGGING & STORAGE  
(\$1.65/ft. drilled x 2,337')

3,856

TOTAL COST

\$ 78,667

This core hole crossed the Old Baldy (L3042) into the Angus Fr. (L12518) at the 518 foot mark. Costs have been apportioned to each mineral claim as follows:

518	x	\$78,667	=	\$17,433	to	Lot 3042
2337.5			=	\$61,234	to	Lot 12518

7428

VER  
730-2641  
04-308887  
KLOOPS  
PHONE 374-1182  
0488184



THE TONTO GROUP OF COMPANIES

SHEPHERD INTERNATIONAL LTD.  
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

COUNT WITH

COMINCO LTD.  
BOX 2000  
KIMBERLEY, B.C. V1A 2G3

CONTRACT NO. 309  
INVOICE NO. 4377C  
DATE 15/09/78  
TO 15/09/78

PROPERTY

KIMBERLEY

01/09/78

FOOTAGE DRILLED

RIG#	HOLE	SIZE	FROM	TO	ANGLE RATE	TOTAL
44-2	6432	50.00 FEET HW	0.00	50.00	19.75	987.50
44-2	6432	50.00 FEET HW	50.00	100.00	20.25	1012.50
44-2	6432	50.00 FEET HW	100.00	150.00	21.75	1087.50 ✓
44-2	6432	19.00 FEET HW	150.00	169.00	22.75	432.25 ✓
44-2	6432	66.00 FEET HQ	169.00	235.00	19.75	1303.50
44-2	6432	15.00 FEET HW	235.00	250.00	23.75	356.25
44-2	6432	50.00 FEET HW	250.00	300.00	24.75	1237.50
44-2	6432	50.00 FEET HW	300.00	350.00	26.25	1312.50
44-2	6432	50.00 FEET HW	350.00	400.00	27.75	1387.50
44-2	6432	50.00 FEET HW	400.00	450.00	29.25	1462.50
44-2	6432	43.00 FEET HW	450.00	493.00	30.75	1322.25 ✓
44-2	6432	7.00 FEET HQ	493.00	500.00	19.75	133.25
44-2	6432	250.00 FEET HQ	500.00	750.00	20.75 ✓	5187.50 ✓
44-2	6432	179.00 FEET HQ	750.00	929.00	18.75 ✓	3353.25
TOTAL						20583

G.E. FOOTAGE 627.00

CORED FOOTAGE 602.00

TOTAL FOOTAGE 929.00

Charge 6112-32

VEN  
738-2641  
04-808587  
ALLOPS  
PHONE 374-1132  
0488194



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.  
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

COUNT WITH

DOMINCO LTD.  
BOX 2000  
KIMBERLEY, B.C. VIA 2G3

CONTRACT NO. 309  
INVOICE NO. 4377C  
DATE 15/09/78  
TO 15/09/78

PROPERTY  
KIMBERLEY

01/09/78

15/09/78

### HOURLY CHARGES

01/09/78 6432	18.00 HOURS MOVING	18.50	333.00
04/09/78 6432	20.00 HOURS MOVING	18.50	370.00
06/09/78 6432	16.00 HOURS BEAKING ✓	57.00	912.00
08/09/78 6432	4.00 HOURS MOVING ✓	18.50 ✓	74.00
10/09/78 6432	1.00 HOURS BEAKING ✓	57.00	57.00
10/09/78 6432	1.00 HOURS TESTING ✓	57.00	57.00
11/09/78 6432	1.00 HOURS CONDITION HOLE	57.00	57.00
12/09/78 6432	2.00 HOURS REDUCE HOLE	57.00	114.00
13/09/78 6432	2.00 HOURS CONDITION HOLE	57.00	114.00
13/09/78 6432	4.00 HOURS SETTING CEMENT	57.00	228.00
13/09/78 6432	3.00 HOURS BEAKING	57.00	199.50
14/09/78 6432	5.00 HOURS CONDITION HOLE	57.00	285.00
14/09/78 6432	1.00 HOURS MUD - GROUTING	57.00	57.00
14/09/78 6432	3.00 HOURS REDUCE HOLE	57.00	171.00
15/09/78 6432	1.00 HOURS CONDITION HOLE	57.00	57.00

3085.50

### MUD CIRCULATION PRODUCTS

255.00 BGS.	QUICK-GEL ✓	5.19	1328.64
153.00 BGS.	QUICK-TRON ✓	6.85	1048.05
50.00 BGS.	CELLEX ✓	6.09	304.50
2.00 BGS.	TANNEX ✓	27.93	55.86
1.00 BGS.	FIBERTEX ✓	17.27	17.27
145.00 GALS	DIESEL ✓	.64	92.80
1.00 BGS.	ASBESTOS ✓	12.33	12.33
2.00 PAIL	DDR ROD GREASE ✓	28.41	56.82
PLUS 10.00 %			291.63

3207.90

### CASINGS

06/09/78 6432	16.00 HW CASING (10 FT)	123.85	1981.60
06/09/78 6432	1.00 HW CASING (5 FT)	69.60	69.60
06/09/78 6432	2.00 HW CASING (2 FT)	35.93	71.90
08/09/78 6432	1.00 HW CASING (10 FT)	123.85	123.85
08/09/78 6432	1.00 HW CASING (5 FT)	69.60	69.60
PLUS 10.00 %			231.66

2548.21

- 2335.41

### CASING SHOES

06/09/78 6432	1.00 HW SHOE S/N	.00	.00
---------------	------------------	-----	-----

TOTAL AMOUNT OF INVOICE

29425.36

VANCOUVER  
TELEPHONE 736-2641  
TELEX 04-508557  
KAMLOOPS  
TELEPHONE 374-1152  
TELEX 0488154



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.  
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

ACCOUNT WITH

COMINCO LTD.  
BOX 2000  
KIMBERLEY, B.C. V1A 2G3

CONTRACT NO. 309

INVOICE NO. 43870

DATE 30/09/78

PROPERTY

KIMBERLEY

S 15817 L

16/09/78

TO

30/09/78

FOOTAGE DRILLED

RIG#	HOLE	SIZE	FROM	TO	ANGLE RATE	TOTAL
44-2	8432	71.00 FEET NO	929.00	1000.00	18.75	1331.25
44-2	8432	300.00 FEET NO	1000.00	1500.00	20.75	10875.00
44-2	8432	300.00 FEET NO	1500.00	2000.00	22.75	11375.00
44-2	8432	81.00 FEET NO	2000.00	2081.00	23.75	1923.75
TOTAL						25000.00

O.B. FOOTAGE .00  
CORED FOOTAGE 1152.00

TOTAL FOOTAGE 1152.00

43870

Sept 16 To 30

\$ 29636.17

OK

To Warehouse Oct 30/78

Int

Change 6112-32

VANCOUVER  
PHONE 736-2641  
EX 04-808597  
KAMLOOPS  
TELEPHONE 374-1182  
TELEX 0488184



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.  
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

ACCOUNT WITH

COMINCO LTD.  
BOX 2000  
KIMBERLEY, B.C. V1A 2G8

CONTRACT NO. 309

INVOICE NO. 43870

DATE 30/09/78

PROPERTY KIMBERLEY

16/09/78

TO 30/09/78

#### HOURLY CHARGES

16/09/78 6432	✓ 1.00 HOURS MUD - GROUTING	57.00	57.00
16/09/78 6432	✓ 6.00 HOURS MOVING	18.50	111.00
19/09/78 6432	✓ 1.00 HOURS CONDITION HOLE	57.00	57.00
22/09/78 6432	✓ 1.00 HOURS CONDITION HOLE	57.00	57.00
23/09/78 6432	✓ 1.00 HOURS CONDITION HOLE	57.00	57.00
25/09/78 6432	✓ 4.00 HOURS MOVING	18.50	74.00
27/09/78 6432	✓ 1.00 HOURS TESTING/LOG/SURVEY	57.00	85.50
27/09/78 6432	✓ 2.00 HOURS WATERLINE - INSTALLATION	57.00	114.00
27/09/78 6432	✓ 1.00 HOURS WATERLINE - INSTALLATION	57.00	57.00

66

#### MUD CIRCULATION PRODUCTS

✓ 3.00 BGS.	QUICK-GEL	5.19	15.57
✓ 3.00 BGS.	QUICK-TRON	6.85	20.55
✓ 0.00 GALS	DIESEL	.64	3.20
✓ 6.00 PAIL	POLY DRILL 307	85.20	511.20
✓ 27.00 PAIL	POLY DRILL 309	113.00	3051.00
PLUS 10.00			360.15

✓ 396

TOTAL AMOUNT OF INVOICE

2963



VANCOUVER  
PHONE 736-2641  
TELEPHONE 374-1152  
FLEX 0488154



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.  
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

ACCOUNT WITH

COMINCO LTD.  
BOX 2000  
KIMBERLEY, B.C. V1A 2G3

CONTRACT NO. 309  
INVOICE NO. 4398C  
DATE 15/10/78  
TO 15/10/78

PROPERTY

KIMBERLEY

01/10/78

15/10/78

FOOTAGE DRILLED

RIGS	HOLE	SIZE	FROM	TO	ANGLE RATE	TOTAL
14-2	6432	256.00 FEET HW	2081.00 ✓	2337.00 ✓	23.75 ✓	6080.00
14-2	6433	56.00 FEET HW	.00	56.00 ✓	19.75 ✓	987.50
14-2	6433	22.00 FEET HW	50.00	72.00 ✓	20.25 ✓	445.50

TOTAL

751

O. R. FOOTAGE 72.00  
CORED FOOTAGE 256.00  
TOTAL FOOTAGE 328.00

Charge: 6112.32 -  
\$ 6080.00 Footage  
\$ 1811.00 Hourly charges  
\$ 1275.56 mud  
\$ 9166.56

6112.33 -  
\$ 987.50 Footage  
\$ 445.50 Footage  
3217.00 hourly charges  
\$ 1233.32 mud  
5883.32

TO WAREHOUSE  
NOV 9/78

\$ 15049.88

7428

VER  
736-2841  
04 308557  
MLOOPS  
PHONE 374-1182  
0486184



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.  
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

OUNT WITH

COMINCO LTD.  
BOX 2000  
KIMBERLEY, B.C. V1A 2G3

CONTRACT NO. 309  
INVOICE NO. 43980  
DATE 15/10/78  
TO 15/10/78

PROPERTY  
KIMBERLEY

01/10/78

HOURLY CHARGES

04/10/78 6432	✓ 8.00 HOURS PULLING CASING	57.00	342.00
04/10/78 6432	✓ 1.00 HOURS TESTING	57.00	57.00
05/10/78 6432	✓ 4.00 HOURS PULLING CASING	57.00	228.00
10/10/78 6432	✓ 6.00 HOURS MOVING	18.50	111.00
15/10/78 6432	✓ 18.00 HOURS EXTRA LABOUR	18.50	296.00
16/10/78 6432	✓ 42.00 HOURS MOVING	18.50	777.00
17/10/78 6432	12.00 HOURS MOVING	18.50	222.00
18/10/78 6432	14.00 HOURS MUD - GROUTING	57.00	798.00
19/10/78 6432	X 10.00 HOURS WATERLINE - INSTALLATION	57.00	570.00
20/10/78 6432	X 6.00 HOURS WATERLINE - MAIN	57.00	342.00
21/10/78 6432	2.00 HOURS REAMING	57.00	114.00
22/10/78 6432	2.00 HOURS REAMING	57.00	114.00
23/10/78 6432	2.00 HOURS WAITING TIME	57.00	114.00
24/10/78 6432	10.00 HOURS REAMING	57.00	570.00
25/10/78 6432	2.00 HOURS RECOVER EQUIP/FISHING	57.00	114.00
26/10/78 6432	4.00 HOURS WAITING TIME	57.00	228.00

MUD CIRCULATION PRODUCTS

125.00 BBS.	QUICK-GEL	5.19	648.75
65.00 BBS.	QUICK-TRAIL	6.85	308.25
80.00 GALS	DIESEL	.64	51.20
3.00 PAIL	POLY DRILL 307	85.20	255.60
2.00 PAIL	POLY DRILL 325	113.00	1017.00
PLUS 10.00 %			228.00
SPLITE #6432	\$1275		
#6433	\$1234		

TOTAL AMOUNT OF INVOICE

2508.88  
15172.88  
123  
75049.88

750' rods + shoe in hole  
on invoice 44' 12

NR  
36-2641  
4-508887  
DOGS  
NE 374-1182  
0488184



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.  
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

IA ANT WITH

COMINCO LTD.  
BOX 2000  
KIMBERLEY, B.C. V1A 2G3

CONTRACT NO. 309  
INVOICE NO. 44120  
DATE 15/11/78

PROPERTY KIMBERLEY 01/11/78 TO 15/11/78

### HOURLY CHARGES

01/11/78 6431	✓ 18.00 HOURS MOVING	18.50 ✓	333.00
01/11/78 6431	✓ 6.00 HOURS WAITING TIME	50.00 ✓	300.00
02/11/78 6431	✓ 24.00 HOURS MOVING	18.50 ✓	444.00
03/11/78 6431	✓ 9.00 HOURS DRILLING - O.B.	57.00 ✓	513.00
03/11/78 6431	✓ 4.00 HOURS SETTING CASING	57.00 ✓	228.00
03/11/78 6431	✓ 6.00 HOURS TRIPPING RODS	57.00 ✓	342.00
03/11/78 6431	✓ 1.00 HOURS REAMING	57.00 ✓	57.00
04/11/78 6431	✓ 14.00 HOURS DRILLING - O.B.	57.00 ✓	798.00
04/11/78 6431	✓ 3.00 HOURS TRIPPING RODS	57.00 ✓	171.00
04/11/78 6431	✓ 1.00 HOURS REAMING	57.00 ✓	57.00
05/11/78 6431	✓ 5.00 HOURS DRILLING - O.B.	57.00 ✓	285.00
05/11/78 6431	✓ 3.00 HOURS TRIPPING RODS	57.00 ✓	171.00
05/11/78 6431	✓ 2.00 HOURS REAMING	57.00 ✓	114.00
06/11/78 6431	✓ 5.00 HOURS DRILLING - O.B.	57.00 ✓	285.00
06/11/78 6431	✓ 3.00 HOURS TRIPPING RODS	57.00 ✓	171.00
06/11/78 6431	✓ 2.00 HOURS REAMING	57.00 ✓	114.00
06/11/78 6431	X 2.00 HOURS MUD - GROUTING	57.00 ✓	114.00
07/11/78 6431	✓ 17.00 HOURS DRILLING - O.B.	57.00 ✓	969.00
07/11/78 6431	✓ 1.00 HOURS REAMING	57.00 ✓	57.00
08/11/78 6431	✓ 1.00 HOURS DRILLING - O.B.	57.00 ✓	57.00
08/11/78 6431	✓ 2.00 HOURS SETTING CASING	57.00 ✓	114.00
08/11/78 6431	✓ 1.00 HOURS REAMING	57.00 ✓	57.00
08/11/78 6431	✓ 1.00 HOURS CONDITION HOLE	57.00 ✓	57.00
08/11/78 6431	✓ 4.00 HOURS REDUCING HOLE	57.00 ✓	228.00
13/11/78 6431	✓ 2.00 HOURS SURVEY	57.00 ✓	114.00

### MUD CIRCULATION PRODUCTS

169	479.00 BGS.	QUICK-GEL	5.19	929.01	877.9
	70.00 BGS.	QUICK-TROL	6.85	479.50	479.5
60	61.00 BGS.	CELLEX	6.09	371.49	365.4
	60.00 GALS	DIESEL	.64	38.40	38.4
PLUS	10.00 %			181.84	178.8

### MATERIALS CONSUMED

03/11/78 6431	1.00 3 15/16 TRICONE	✓	107.70	107.70 ✓
03/11/78 6431	1.00 3 15/16 TRICONE	✓	107.70	107.70 ✓
06/11/78 6431	1.00 3 15/16 TRICONE	✓	107.70	107.70 ✓
PLUS	10.00 %			32.31

### RODS

13 /78 6432	75.00 HWL RODS (10 FT)	6432	100.66	7549.50 ✓
31/10/78 6432	21.00 HWL RODS (10 FT)	6433	100.66	2113.86 ✓
MINUS	25.00- % CONTRACTOR'S ALLOWANCE			2415.84 ✓

7247.52

Charge rods 6112 31  
32  
33

36-2841  
4-508587  
OOPS  
E 374-1152  
0488154



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.  
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

VIA  NT WITH

DOMINCO LTD.  
BOX 2000  
KIMBERLEY, B.C. V1A 2G3

CONTRACT NO. 309

INVOICE NO. 44120

DATE 15/11/78

PROPERTY KIMBERLEY

01/11/78 TO 15/11/78

CASING SHOES

13/09/78 6432	1.00 HWL ROD SHOE	6432	380.74	380.74
<del>31/10/78 6432</del>	<del>1.00 HWL ROD SHOE</del>	<del>6432</del>	<del>380.74</del>	<del>380.74</del>
	PLUS 10.00 %			76.15
				837.63

BITS SHELLS

<del>78 6431</del>	<del>1.00 HW BIT S/W 40285</del>	<del>6431</del>	<del>973.41</del>	<del>973.41</del>
	PLUS 10.00 %			97.34
				1070.75

THIRD PARTY CHARGES

KIKI AND SONS TRANSFER LTD.		
9733		175.00
1071		176.11
PLUS 10.00 %		35.11

TOTAL AMOUNT OF INVOICE

✓ 386.22

23372.77

23,225.70