



RECEIVED

JUL 13 1979

GOLD COMMISSIONER
PORT OF STEEL MINING DIVISION
CRANBROOK, B.C.

MINERAL ACT

Statement of Exploration and Development

I, Arthur L. Burrows
(Name)
22 - 102nd Avenue
(Address)
Kimberley, B.C. V1A 1A6
Valid subsisting F.M.C. No. 173187

Agent for Cominco Ltd.
(Name)
Box 2000
(Address)
Kimberley, B.C. VIA 2G3
Valid subsisting F.M.C. No. 163806

STATE THAT

1. I have done, or caused to be done, work on the _____
 _____ Mineral Claim(s)
 Record No.(s) _____ Lot 12519
 Situate at _____ Kimberley _____ in the _____ FORT STEELE _____ Mining Division,
 to the value of at least _____ 39,813.00 _____ dollars. Work was done from the _____ 6th _____ day
 of _____ October _____ 1978, to the _____ 31st _____ day of _____ October _____ 1978.

2. The following work was done in the 12 months in which such work is required to be done:

(COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING)

A. PHYSICAL (Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails)

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

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	

I wish to apply \$_____ of this work to the claims listed below.

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

7461

(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.)

C. DRILLING (Details in report submitted as per section 8 of regulations.) (The itemized cost statement must be part of the report.)		COST
		\$ 39,813.00
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		\$ 39,813.00

Who paid for the above-described work? Name Cominco Ltd.
Address Box 2000
Kimberley, B.C. V1A 2G3

Portable Assessment Credits (PAC) Withdrawal Request		AMOUNT
Amount to be withdrawn from owner(s) account(s):		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.	
	2.	
	3.	
	4.	
TOTAL WITHDRAWAL		
TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL		

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.)

As Per Attached

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. Cominco Ltd.	\$ 19,813.00
	2.	
	3.	
In operator(s) name (person paying for the work).	1.	
	2.	
	3.	

Al Bunnag
(Signature of Applicant)

1047

COMINCO LTD.

SULLIVAN MINE

WARD GROUP

KIMBERLEY, B.C.

Years of work to be applied to the following claims:

<u>Mineral Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Month</u>	<u>Number Of Years</u>
Mat 11	1	12896	Oct.	3
Mat 28	1	13173	Oct.	4
Mat 30	1	12897	Oct.	5
Mat 32	1	12899	Oct.	4
Mat 33	1	12900	Oct.	4
Mat 54	1	12921	Oct.	5
Mat 55	1	12922	Oct.	5
Mat 53	1	12920	Oct.	5
Mat 96	1	13213	Oct.	5
Mat 97	1	13214	Oct.	6
Mat 142	1	13231	Oct.	6
Mat 149	1	13238	Oct.	6
Mat 196	1	12975	Oct.	6
Mat 197	1	12976	Oct.	6
Mat 195	1	12974	Oct.	6
Mat 194	1	12973	Oct.	6
Mat 147	1	13236	Oct.	6
Mat 145	1	13234	Oct.	6
Mat 144	1	13233	Oct.	6
				<u>100 years</u>

7461

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SULLIVAN MINE

KIMBERLEY, B.C.

WARD GROUP ASSESSMENT REPORT

(THIS ASSESSMENT WORK WAS DONE ON A PRODUCING PROPERTY)

The following report describes the results of drilling diamond drill hole 6433 from 0 to 325 metres in the Kimberley area. This hole was drilled on the Ward 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.

BC Geological Survey
Assessment Report
07461

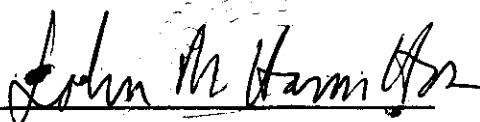
Cominco Ltd., owner of the claims, was the operator of the exploration program.

P.W. Ransom is author of this report.

Date of Submission:

July 13 / 79

Endorsed for
Release by :



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

i) Specific Location

Exploration hole No. 6433 is located 850 metres north 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. From 0 to 64 metres overburden was encountered. This interval was cased with H wireline rods. From 64 to 325 metres, bedrock was cored using N wireline tools 7.6 cm in diameter yielding core 4.8 cm in diameter.

iv) D.D.H. 6433 was collared at a dip of -50° on a bearing of N 90° W on the Ward Crown granted mineral claim.

DETAILED TECHNICAL DATA AND INTERPRETATION

i) Purpose

The purpose of exploration D.D.H. 6433 was to locate and test veins parallel to and about 1200 metres north-east of the Stenwinder deposit.

ii) Results

0 - 64 metres	Overburden, glacial till.
64 - 325 metres	Thin and medium bedded wackes and sub wackes. Two quartzitic wackes about 0.5 meter thick (true) occur at depths of 165 and 292 meters.

Other than broken zones probably related to near surface weathering this hole encountered only one fault from 204-207 meters.

iii) Interpretation

The rocks in this hole are quite typical of Lower Aldridge Formation sediments. The regular nature of these sediments suggests that they formed under stable conditions.

CONCLUSION

Diamond drill hole 6433 cored a sequence of thin to medium bedded wackes and sub wackes typical of the Lower Aldridge Formation. No significant sulphide mineralization was encountered and there are no indications of vein systems in the area that was tested.

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.

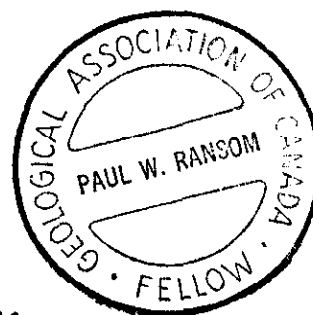
I have been continuously engaged in mining and exploration geology for twelve years.

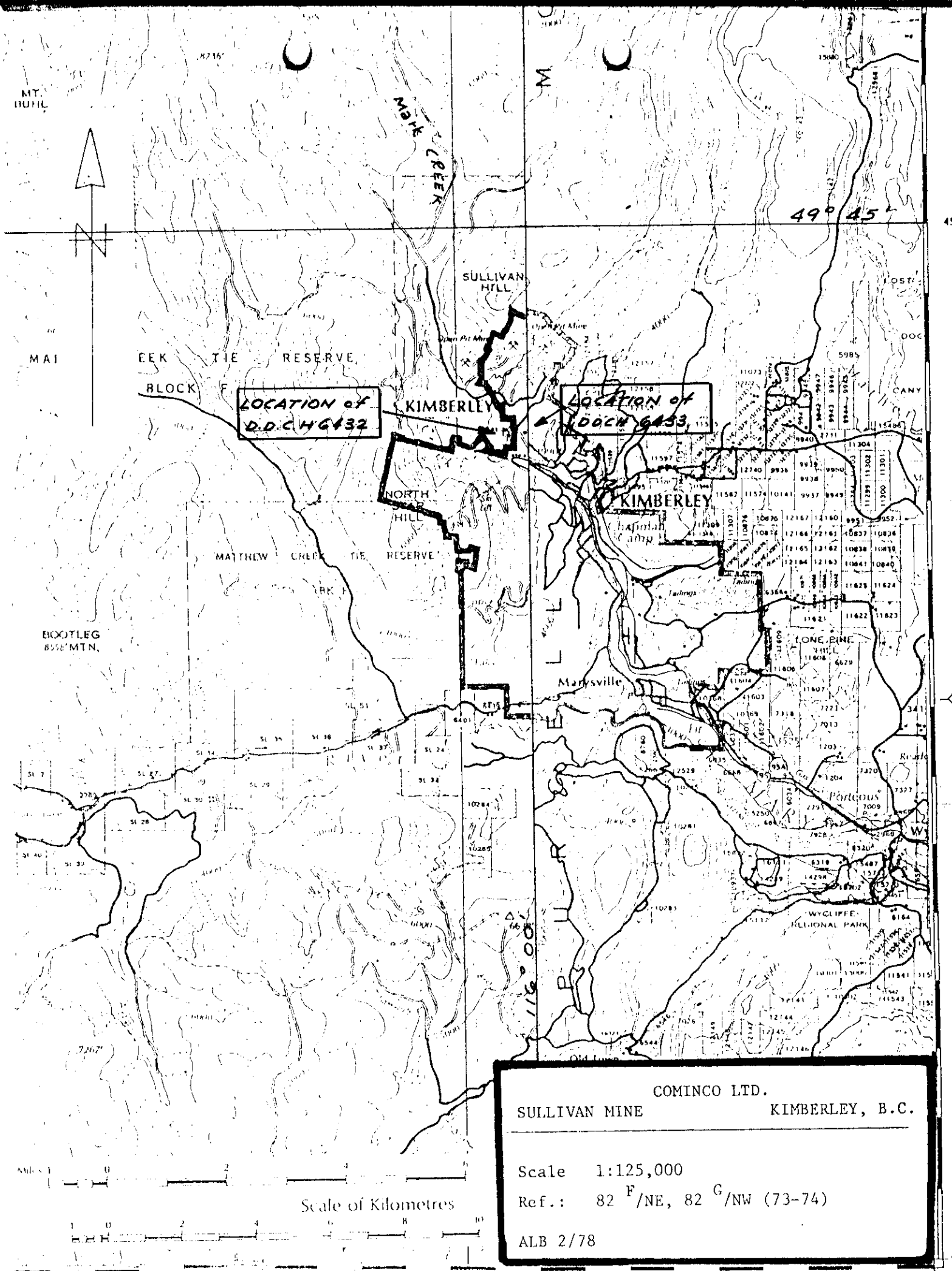
I am a member of the Geological Association of Canada.

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



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





COMINCO LTD.
SULLIVAN MINE KIMBERLEY, B.C.

Scale 1:125,000
Ref.: 82 F/NE, 82 G/NW (73-74)
ALB 2/78

MENIN
L. 6724

OLUICK
Fr. L. 3038

HIDDEN HAND
L. 4086 NO. 2

APRIL
L. 2521

MARCH
L. 3699
R. 5643

JUL
L. 3700

OPEN PIT WASTE DUMP

EMPIRE
L. 12517

OLD BALDY
L. 3042

D.D. CH 6433

WARD
L. 12519

TIPPERARY
L. 12523

D.D. CH 6432 ANGUS
L. 12518 FR.

L. 6726
ANOTHER

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

SEPHINE
L. 12524

SPIDER
L. 13188

PERSHING
L. 9875

L. 9828

WOLF
L. 11000

POLLOX
L. 13182

SULLIVAN MINE

TRAM
L. 4688
CH 5498

COMINCO LTD.

SULLIVAN MINE

KIMBERLEY B.C.

WARD C.G.C. GROUP

STEMWINDER
L. 2998

MISPAH
L. 12434

ALIOTH
L. 6192 FR.

DINKUM
L. 5585 FR.

ALL OVER
L. 1384

WINDFALL

DEAN

Diamond Drill Geological Log

FOR D.D.H. 6433



AT 5,068.47 DEP. 4,511.33 ELEV. 4,227'
DIP -50° AZIM. 270° LENGTH 1,066'
HORIZ. COMP. 747.2' VERT. COMP. 758.9'

DATE COLLARED: Oct. 7, 1978 DATE COMPLETED: Oct. 31, 1978

CORE STORAGE: SULLIVAN MINE OPEN PIT STORAGE

DRILLED ON CLAIM(S): WARD MINERAL CLAIM

OBJECTIVE:

PLANNED LENGTH: 900 Feet (274 m)

TERMINATION COMMENTS: FREEZING WATERLINES, LACK OF MUD RETURN, AND THE RINGING OF BITS-DRILLING WAS TERMINATED @ 1066'.

DRILLED BY: SHEPHERD ENTERPRISES LIMITED

TYPE DRILL: LONGYEAR MODEL 44

CORE SIZE(S): NO TOTAL LENGTH

PERFORMANCE COMMENTS: LOST ALL MUD RETURN @ 331' (Ref. M. Carrigan-driller supervisor)

GENERAL COMMENTS:

CASING REMAINING IN HOLE (LENGTH & SIZE): 210 Feet HWL Rods

TYPE OF CAP & METHOD OF SEALING: Threaded Cap

OTHER MATERIAL REMAINING IN HOLE: N Casing shoe

SURVEY INSTRUMENT USED: Sperry Sun Single Shot

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. 6433

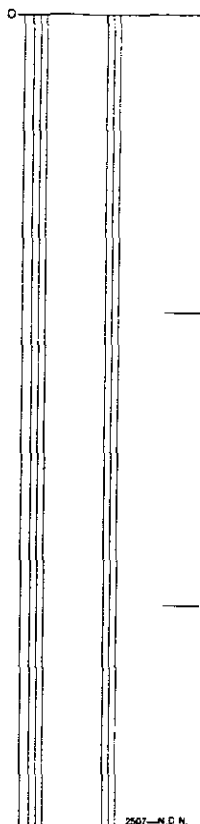
Diamond Drill Geological Log



40 Scale

Color Plot & Dips Ore Classes & Aver

Objective:		To Test for Mineralized Veins South of The Hidden Hand Fault.		Sampled: Nil	
Logged By:		L. Cotnoir		Date: January, 1979	
Block:		Sect.:		Composites: Nil	
Place:		Ward Mineral Claim		App. Bear: West	
App. Dip:		-50°		Length: 1066'	
From	To	Discard:	Reason:		
0.0	210.0	Overburden			
210.0	229.0	Thin to medium bedded sub wacke and wackes, argillite tops. Minor 1/16"-1/4" Quartz calcite fractures. Light green-purple alteration @ 224.5'. Bedding angles @ 212' - 28°, 225' - 44°. Core is broken slightly. No visible Pb, Zn mineralization except marcasite and pyrite in fracture joints.			
229.0	245.0	Core is badly broken in this section, but consist of sub wacke and wackes with more or less a massive appearance. Minor calcite fracturing @ 234.5'. Possible fault zone starting @ 239', brecciated and badly broken with marcasite, pyrite to 242'. Ground chopped to 245'. Purple alteration @ 231' and 239'.			
245.0	257.0	Thin to medium bedded sub wacke and wackes, with minor fracturing. No carbonate zones in this section. Minor pyrite fracture mineralization. Bedding angles @ 253', 255', 35° - 40°.			
257.0	264.0	Ground badly broken. Rock type is thin bedded sub wackes with pyrite fracture mineralization. No carbonate or alteration in this section. Bedding angle @ 258' - 40°			
264.0	281.0	Thin to medium bedded sub wacke and wackes, argillite tops. Ground still broken to 272'. Dark brown iron oxide fracture from 266' - 270' - laboratory identification probably stiptomelane. The finely laminated zones have pyrite pyrrhotite with occasional specs of calcopyrite Pb.Zn.			
			Core Size		
			NQ		
			Hole No.		
			6433		
			Page		
			1		



Diamond Drill Geological Log



Objective:		Sampled:		40 Scale	
Logged By:		Date:		Color Plot & Dips	
Block:		Sect.:		Ore Classes & Ave.	
Place:		App. Bear:		App. Dip:	
Composites:		Length:			
From	To	Discard:	Reason:		
281.0	293.5		Irregular and discontinuous thin to medium bedded sub wacke and wackes, this zone is more or less all altered light green, purple and browns. Four small carbonate zones, two in 1/16" calcite fractures, two in beds @ 285.5' other carbonate zones @ 289', 293' are discontinuous 1/2" beds. Very little fracturing in this zone.		
293.5	304.5		Thin to medium bedded sub wacke and wackes, with light argillite bands, darker laminations to fine thinly laminated sub wacke. Minor pyrite mineralization. Slightly altered @ 304'. One one inch carbonate bed @ 293.5'. Bedding angles @ 296' - 40°, 304' - 31°.		
304.5	317.0		Thin to medium bedded sub wacke and wackes. Light green and purple altered zones in this section have tight x crossed hairline fractures. Marcasite, pyrite mineralization in fractures. No calcareous zones in this section. Bedding angles @ 314' - 35°.		
317.0	346.0		Thin to medium bedded sub wacke and wackes. A one inch pyrite-calcite fracture occurs @ 332' very few other fractures in this section. A thinly bedded calcareous zone occurs @ 324.5 to 325.3'. No alteration in this section.		
346.0	375.0		Thin to medium bedded sub wacke and wackes, with light argillite inter beds from 1/8" - 3/4" thinly laminated zones are biotitic, with minor pyrite. No calcareous zones in this section. Bedding angles @ 348' - 30°, 366' - 41°.		
				Core Size	
				NQ	
				Hole No.	Page
				6433	2

Diamond Drill Geological Log



Objective:						Sampled:		40 Scale	
Logged By:						Date:		Color Plot & Dips	
Composites:						App. Bear:		App. Dip:	
Block:		Sect.:		Place:		Length:			
From	To	Discard:		Reason:					
373.0	452.0	Thin to medium bedded sub wacke and wackes, with light argillite interbeds 1/8" - 1". Altered and x crossed fracturing @ 393', 407'-408', 416', 433', 440' calcite spotting from 449 - 452. Bedding angles @ 382' - 32°, 395' - 25°, 405' - 28°, 424' - 35°, 433' - 35°, 450' - 32°. One 4" calcareous bedded zone @ 416'. Minor calcite fracturing @ 437' and 439'.							
452.0	487.0	Thin to medium bedded sub wacke and wackes, ground chopped from 452' - 457', possible fault zone. Very few argillite inter beds as in previous sections. Calcareous zones @ 459', 462' and 485'. Bedding angles @ 463' - 28°, 475' - 25°, 484' - 21°.							
487.0	539.0	Thin to medium bedded sub wacke and wackes, with minor fracturing, some purple and green alteration in and around x crossed hairline fracture zones. Calcareous zones @ 514', 522'. Fault breccia from 530' - 531'. Bedding angles @ 487' - 25°, 517 - 33°.							
539.0	542.5	3.5' fine grained Quartzitic wacke.							
621.0	670.0	Thin to medium bedded subwacke and wackes, with few light colored argillite interbeds. Core chopped and broken from 621' - 632'. Light green and purple alteration @ 645' and 656'. Minor calcite fracturing @ 621', 635', 658' and 663'. Most of the fracturing contain marcasite and pyrite, pyrrhotite fractures occur occasionally. Bedding angles @ 640' - 30°, 652' - 30°.							
						Core Size			
						NQ			
						Hole No.		Page	
						6433		3	

Diamond Drill Geological Log



40 Scale

Objective:			Sampled:			Color Plot & Dips		One Classes & Ave	
Logged By:			Date:			Composites:			
Block:		Sect:	Place:	App. Bear:	App. Dip:	Length:			
From	To	Discard:		Reason:					
670.0	680.0			Fault zone broken - calcite breccia, gouge, marcasite and pyrite.					
680.0	706.0			Thin bedded sub wacke and wackes, more light colored argillite interbeds to 706' than previous section. Minor marcasite, pyrite fracturing. No calcareous zones in this section. Bedding angles @ 687' - 31°, 706' - 33°					
706.0	727.0			Thin bedded sub wacke and wackes. Few light colored argillite interbeds. Calcareous zones in this section are bedded, 722' and 724' - 727'. Slight alteration at these footages. 707' and 711'. Bedding angle @ 716' - 35°					
727.0	739.0			Thin to medium bedded sub wacke and wackes, highly fractured, most fractures contain calcite pyrrhotite and some zinc. Minor 1" calcareous zones.					
739.0	760.0			Thin to medium bedded sub wacke and wackes, with minor fracturing. One altered zone from 747' - 750'. Bedded calcareous zones 741' - 742', 755' - 756'. Bedding angles 750' - 38°, 757 - 31°					
760	832.0			Thin to medium bedded subwacke and wackes, as above with more white argillite interbeds. Calcarous zones @ 784', 791'. Three minor brecciated slump features @ 808', 812' and 828'. Bedding angles @ 788' - 34°, 806' - 43°					
				Core Size					
				NQ					
				Hole No.		Page			
				6433		4			

Diamond Drill Geological Log



Objective:		Sampled:		40 Scale	
Logged By:		Date:	Composites:	Color Plot & Dips	One Classes & Aver.
Block	Sect.	Place:	App. Bear:	App. Dip:	Length:
From	To	Discard:	Reason:		
832.0	897.0	Thin to medium bedded sub wacke and wackes, coarser grained in appearance. Healed calcite fracturing. Minor slump @ 837'. Few calcareous zones from 837' - 861'. Bedding angles @ 860' - 48°, 873' - 39°, 887' - 40°.			
897.0	914.0	Thin to medium bedded sub wacke and wackes with minor calcite-pyrrhotite fracturing. No calcareous zones in this section. Bedding angle @ 905' - 55°.			
914.0	917.0	Watercourse marcasite pyrite calcite breccia, fracture angle @ 914' - 30° to core.			
917.0	929.0	Thin to medium bedded sub wacke and wackes, ground below watercourse is badly chopped and broken. Calcareous zones @ 925', minor calcite fracturing. Some alteration.			
929.0	1029.0	Thin to medium bedded sub wacke and wackes, one quartzitic wacke @ 957' - 959'. Calcite pyrrhotite fracturing @ 949'. Calcareous zones @ 932', 935', 938', 957', 982', 985', 988', 989', 995', 1009', and 1029'. Bedding angles @ 953' - 41°, 969' - 40°, 978' - 49°, 1009' - 50°.			
1029.0	1066.0	Thin to medium bedded sub wacke and wackes with more light colored argillite interbeds than the last five sections. Minor calcite fracturing. One calcareous zone @ 1034'. Bedding angles @ 1036' - 57°, 1066' - 56°.			
1066.0		END OF HOLE			
			Core Size		
			NQ		
			Hole No.	Page	
			6433	5	

COMINCO LTD.

SULLIVAN MINE

KIMBERLEY, B.C.

COST SUMMARY
D.D.C.H. 6433

FOOTAGE

0 - 72'	Inv. 4398C	1,433	
72'-1066'	Inv. 4406C	<u>18,942</u>	
			20,375

HOURLY CHARGES

Inv. 4398C	3,217	
Inv. 4406C	<u>3,402</u>	
		6,619

SUPPLIES

Inv. 4398C	2,509	
Inv. 4406C	4,891	
Inv. 4412C Rods	1,585	
Inv. 4412C Shoe	<u>419</u>	
		9,404

MOBILIZATION/DEMOB @ \$.245/ft. drilled	261
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WATER HAULING	198
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COREBOXES 44 @ \$4.35	191
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COMINCO EQUIPMENT RENTAL	1,006
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COMINCO SUPERVISION, TRUCK, CORE LOGGING AND STORAGE @ \$1.65/ft. drilled	<u>1,759</u>
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TOTAL COST	<u>\$ 39,813</u>
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7461

VER
736-2841
06 808557
MLOOPS
PHONE 374-1182
0488184



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

COUNT WITH

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

CONTRACT NO. 309

INVOICE NO. 4398C

DATE 15/10/78

PROPERTY
KIMBERLEY

01/10/78

TO 15/10/78

HOURLY CHARGES

04/10/78 6432	✓ 6.00 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
05/10/78 6432	✓ 6.00 HOURS MOVING	18.50	111.00
05/10/78 6432	✓ 16.00 HOURS EXTRA LABOUR	18.50	296.00
06/10/78 6432	✓ 12.00 HOURS MOVING	18.50	777.00
07/10/78 6433	12.00 HOURS MOVING	18.50	222.00
07/10/78 6433	19.00 HOURS MUD - GROUTING	57.00	798.00
07/10/78 6433	X 10.00 HOURS WATERLINE - INSTALLATION	57.00	570.00
07/10/78 6433	X 4.00 HOURS WATERLINE - MAINT.	57.00	228.00
07/10/78 6433	2.00 HOURS REAMING	57.00	114.00
07/10/78 6433	2.00 HOURS REAMING	57.00	398.00
07/10/78 6433	2.00 HOURS WAITING TIME	50.00	100.00
07/10/78 6433	10.00 HOURS REAMING	57.00	570.00
07/10/78 6433	2.00 HOURS RECOVER EQUIP/FISHING	57.00	114.00
07/10/78 6433	4.50 HOURS WAITING TIME	50.00	225.00

*pos 10, 2 m
10 m 1.6*

5154.00
5028.00

MUD CIRCULATION PRODUCTS

125.00 BAGS	QUICK-GEL	5.19	648.75
45.00 BAGS	QUICK-TRAIL	6.85	308.25
80.00 GALS	DIESEL	.64	51.20
3.00 PAIL	POLY DRILL 307	85.20	255.60
9.00 PAIL	POLY DRILL 325	113.00	1017.00
PLUS 10.00 %			228.08

2508.88

TOTAL AMOUNT OF INVOICE

15172.88

123

75049.88

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

VANCOUVER
PHONE 736-2641
01-308857
KAMLOOPS
TELEPHONE 374-1152
FLEX 0488134



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. VIA 2G3

CONTRACT NO. 309
INVOICE NO. 6398C
DATE 15/10/78
TO 15/10/78

PROPERTY

KIMBERLEY

01/10/78

FOOTAGE DRILLED

RIG#	HOLE	SIZE	FROM	TO	ANGLE RATE	TOTAL
11-2	6432	208.00 FEET HD	2081.00	2082.00	20.75	6080.00
11-2	6433	10.00 FEET HD	1.00	50.00 ✓	19.75 ✓	987.50 ✓
11-2	6433	22.00 FEET HD	50.00	72.00 ✓	20.25 ✓	445.50 ✓
TOTAL						7513.

O.B. FOOTAGE 72.00
CORED FOOTAGE 208.00
TOTAL FOOTAGE 320.00

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

736-2641
04-808887
AMLOOPS
PHONE 374-1182
EX 0488154



THE TONTO GROUP OF COMPANIES

SHEPHERD INTERNATIONAL LTD.
1210 WEST 24TH AVENUE

VANCOUVER, B.C. V6H 1B7

COUNT WITH

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

CONTRACT NO. 309

INVOICE NO. 44060

DATE 31/10/78

PROPERTY KIMBERLEY

18/10/78 TO 31/10/78

FOOTAGE DETAILED

HIGH	HOLE	SIZE	FROM	TO	ANGLE RATE	TOTAL
44-2	8483	28.00 FEET HW	72.00	100.00	20.25	567.00 /
44-2	8483	50.00 FEET HW	100.00	150.00	21.75	1087.50 /
44-2	8483	50.00 FEET HW	150.00	200.00	22.75	1137.50 ✓
44-2	8483	10.00 FEET HW	200.00	210.00	23.75	237.50
44-2	8483	290.00 FEET HQ	210.00	500.00	17.75	5147.50
44-2	8483	500.00 FEET HQ	500.00	1000.00	18.75	9375.00
44-2	8483	67.00 FEET HQ	1000.00	1067.00	20.75	1390.25
TOTAL						18942.

O.B. FOOTAGE 183.00

CORED FOOTAGE 837.00

TOTAL FOOTAGE 890.00

To ware house

For 20/78

Charge 6112 33

736-2641
04-808557
MLOOPS
PHONE 374-1182
EX 0488154



THE TONTO GROUP OF COMPANIES
SHEPHERD PRODUCTIONS LTD.
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

ACCOUNT WITH

CUMINGCO LTD.
BOX 2000
KIMBERLEY, B.C. VIA 2H2

CONTRACT NO. 309

INVOICE NO. 4406C

DATE 31/10/78

PROPERTY KIMBERLEY

16/10/78 TO 31/10/78

HOURLY CHARGES

16/10/78 6433	✓ 2.00 HOURS REPAIRING	57.00	114.00
16/10/78 6433	✓ 3.00 HOURS CONDITION HOLE	57.00	171.00
16/10/78 6433	✓ 5.00 HOURS MUD - GRADING	57.00	228.00
17/10/78 6433	✓ 2.00 HOURS REPAIRING	57.00	114.00
17/10/78 6433	✓ 1.00 HOURS CONDITION HOLE	57.00	57.00
17/10/78 6433	✓ 1.00 HOURS MUD - GRADING	57.00	114.00
17/10/78 6433	✓ 2.00 HOURS WATERLINE - POINT	57.00	259.00
17/10/78 6433	✓ 3.00 HOURS REPAIR HOLE	57.00	171.00
17/10/78 6433	✓ 2.00 HOURS CONDITION HOLE	57.00	114.00
17/10/78 6433	✓ 1.00 HOURS TESTING/LOG/REVIEW	57.00	85.50
17/10/78 6433	✓ 2.00 HOURS WAITING TIME	50.00	100.00
17/10/78 6433	✓ 2.00 HOURS WAITING TIME	50.00	100.00
17/10/78 6433	✓ 2.00 HOURS WAITING TIME	50.00	100.00
17/10/78 6433	✓ 2.00 HOURS OFFSHORE - ALL OPERATIONS	57.00	912.00
17/10/78 6433	✓ 1.00 HOURS OFFSHORE - ALL OPERATIONS	57.00	57.00
17/10/78 6433	✓ 1.00 HOURS WAITING TIME	50.00	50.00
17/10/78 6433	✓ 1.00 HOURS MUD - GRADING	57.00	57.00
17/10/78 6433	✓ 1.00 HOURS WAITING TIME	50.00	50.00
17/10/78 6433	✓ 1.00 HOURS SURVEY	57.00	114.00
17/10/78 6433	✓ 1.00 HOURS MUD - GRADING	57.00	171.00
17/10/78 6433	✓ 1.00 HOURS PULLING CASING	57.00	114.00
17/10/78 6433	✓ 1.00 HOURS MOVING	18.00	378.00
17/10/78 6433	✓ 1.00 HOURS WAITING TIME	50.00	250.00

MUD CIRCULATION PRODUCTS

140	115.00 NOS.	QUICK-ON	5.19	596.80	72
37	75.00 NOS.	QUICK-ON	6.85	510.75	59
	18.00 NOS.	CELEST	6.09	109.62	
	1.00 PAIL	POLY DRILL 320	160.00	160.00	
125	100.00 NOS.	DIESEL	.61	67.20	80
	6.00 NOS.	PORTLAND CEMENT	17.85	107.10	
	2.00 PAIL	POLY DRILL 320	85.20	170.40	
	21.00 PAIL	POLY DRILL 320	113.00	2378.00	
PLUS	10.00 %			467.84	43

CASINGS

16/10/78 6433	1.00 IN CASING (10 FT)	✓	123.80	123.85
PLUS	10.00 %			12.39

31/10/78
6433

210' HWL Rod
1 HWL Rod also

TOTAL AMOUNT OF INVOICE

27757.2

272

27757.2

27784.4

4412

36-2641
4-908597
DOPS
K 374-1152
0488154



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

IA NT WITH

DOMINCO LTD. 736-2641
BOX 2000
KIMBERLEY, B.C. V1A 2G3

CONTRACT NO. 309
INVOICE NO. 4412C
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	✓ 363.00
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	✓ 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	27.93	✓ 929.01	877.00
60	70.00 BGS.	QUICK-TROL	6.85	✓ 479.50	479.50
	61.00 BGS.	CELLEX	6.09	✓ 371.49	365.00
	60.00 GALS	DIESEL	64	✓ 38.40	38.40
PLUS	10.00 %			✓ 191.84	178.00

MATERIALS CONSUMED

03/11/78 6431	1.00 3 15/16 TRICONE	✓ 107.70	✓ 107.70
05/11/78 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

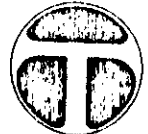
RODS

15/11/78 6432	75.00 HWL RODS (10 FT)	6432	100.66	✓ 7542.50
31/10/78 6433	21.00 HWL RODS (10 FT)	6433	100.66	✓ 2113.86
MINUS 25.00- % CONTRACTORS ALLOWANCE				✓ 2415.84

7247.52

Charge Order 6112 31
32
33

36-2641
4-808587
OOPS
374-1162
0488154



THE TONTO GROUP OF COMPANIES

SHEPHERD ENTERPRISES LTD.
1215 WEST 7TH AVENUE

VANCOUVER, B.C. V6H 1B7

VA  NT WITH

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

CONTRACT NO. 309
INVOICE NO. 44120
DATE 15/11/78
01/11/78 TO 15/11/78

PROPERTY KIMBERLEY

CASING SHOES

10/09/78 6432	1.00 HWL ROD SHOE	6432	380.74	380.74
31/10/78 6433	1.00 HWL ROD SHOE	6433	380.74	380.74
PLUS 10.00 %				76.15
				419.00
				387.63

BITS SHELLS

10/09/78 6431	1.00 HD BIT S/W 40255	6431	973.41	973.41
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

✓ 386.22

TOTAL AMOUNT OF INVOICE

23372.77
23,225.70

746