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COMINCO LTD.

WESTERN DISTRICT

EXPLORATION NTS: 92 H9

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DIAMOND DRILLING REPORT

UP CLAIMS

PRINCETON AREA

ò

SIMILKAMEEN MINING DIVISION

Period of Work

September 19, 1977

to

October 27, 1977

November 3, 1977

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R.J. Nicholson, P. Eng.

STATEMENT OF QUALIFICATIONS

I, Robert J. Nicholson, with business address Cominco Ltd., 200 Granville Square, Vancouver, British Columbia, do hereby certify that I have supervised the diamond drilling program and the logging of the drill core by W.E. Lumley, geologist, and have assessed and interpreted the data resulting from said program on the UP claim group.

I also certify that:

- I am a graduate of The University of British Columbia with a B.A. Sc. degree in Geological Engineering (1953).
- I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.

Submitted:

Ŕ.J. Nicholson P. Eng.

November 3, 1977

Vancouver, British Columbia

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAMME

CARRIED OUT ON THE MINERAL CLAIM UP 1

ON THE

UP CLAIM GROUP

Located near Princeton

in the Similkameen Mining Division of the

Province of British Columbia

More Particularly N.T.S. 92 H9W

AFFIDAVIT

I, ROBERT J. NICHOLSON, OF THE CITY OF VANCOUVER IN THE PROVINCE OF BRITISH COLUMBIA, MAKE OATH AND SAY:

- 1. THAT I AM EMPLOYED AS A GEOLOGIST BY COMINCO LTD. AND, AS SUCH, HAVE A PERSONAL KNOWLEDGE OF THE FACTS TO WHICH I HEREINAFTER DEPOSE;
- 2. THAT ANNEXED HERETO AND MARKED AS "EXHIBIT A" TO THIS MY AFFIDAVIT IS A TRUE COPY OF EXPENDITURES INCURRED ON DIAMOND DRILLING ON THE MINERAL CLAIM UP 1;
- 3. THAT THE SAID EXPENDITURES WERE INCURRED BETWEEN THE 19th DAY OF SEPTEMBER 1977 AND THE 27th DAY OF OCTOBER, 1977 FOR THE PURPOSE OF MINERAL EXPLORATION ON THE ABOVE NOTED CLAIM GROUP.

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Sworn Before Me at the City of Vancouver in the Province of British Columbia this 3rd day of <u>November</u> 1977.

A NOTARY PUBLIC IN AND FOR THE) PROVINCE OF BRITISH COLUMBIA)

SUB-MINING RECORDER

obert J. Nicholson

EXHIBIT "A"

DIAMOND DRILLING COSTS

ON THE

UP CLAIM GROUP

Situated near Princeton

49⁰ 31' North Latitude 119⁰ 29' West Longitude

NTS: 92H 9W

Salaries

1

W.E. Lumley; Geologist September 26 to October 27,	1977: 32 days @ \$85/day	\$ 2,720.
R.J. Nicholson; Supervisor September 19 to October 27,	1977: 10 days @ \$110/day	1,100.

Room and Board

W.E.	Lumley:	32 days @ \$18/day	576.
R.J.	Nicholson	n: 10 days @ \$18/day	180.

Transportation

Truck rental		
September 26 to October 27/77:	32 days @ \$20,50/day	656,

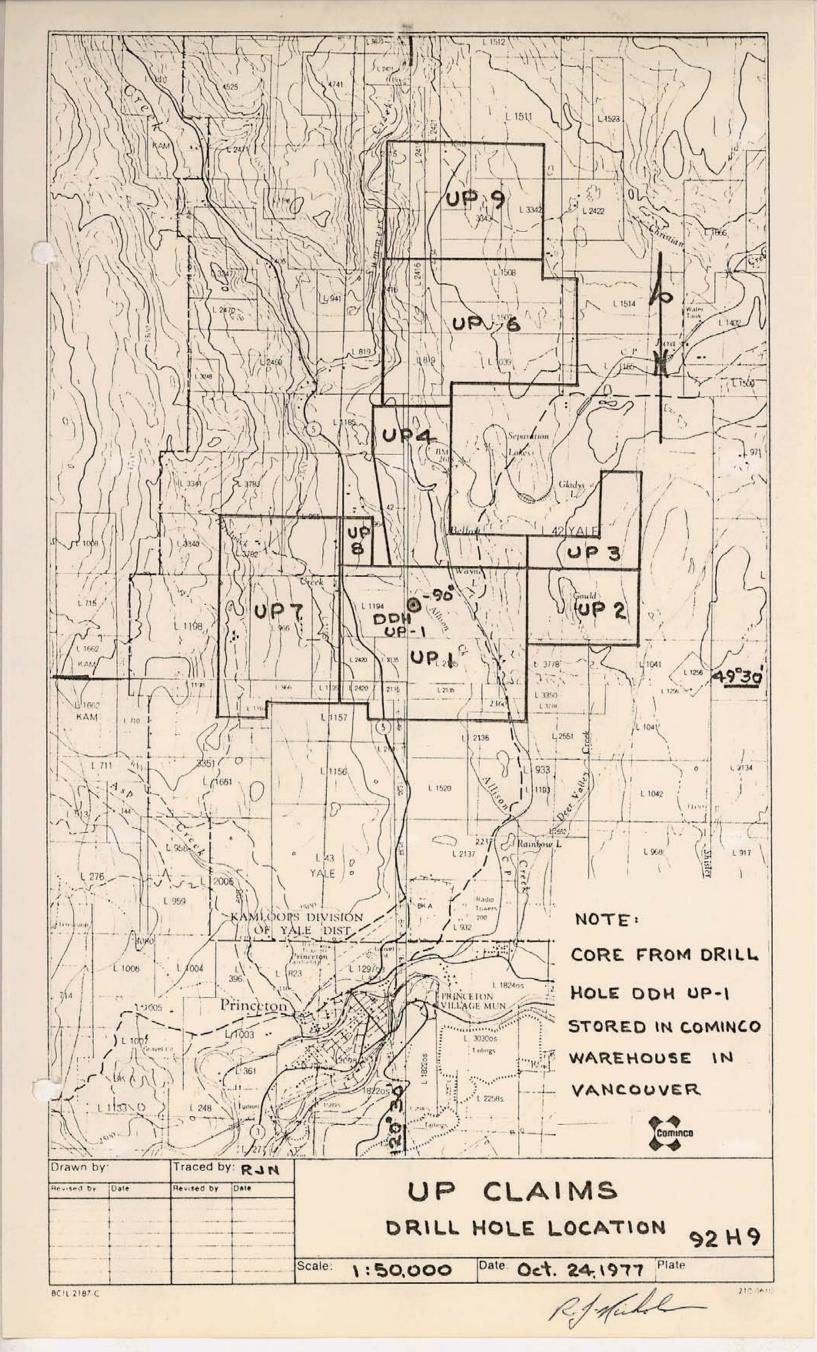
Drilling

Drill hole DDH UP-1 (H. Allen Diamond Drilling Ltd.); Sept. 27 to Oct. 27/77: Size BQ to 877' @ \$14.18/ft,	
and Size AQ 877' to 1000' @ \$53.95/ft	19,074.
TOTAL	\$24,306.
Total Assessment Credit requested for 171 Unit Years =	\$23,100.00

Signed: R.M.Mich . Nicholson, P. Eng.

THIS IS EXHIBIT "A" TO THE AFFIDAVIT OF EXPENDITURES RELATING TO THE DIAMOND DRILL PROGRAM DELARED BEFORE ME ON THE 3/2 DAY OF NOVEMBER, 1977 A.D.

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA



Drill Hole R cord

Colour Plot & Dips

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Scale

Property I	JP CLAIMS District Western District Hole No. DDH UP-1							Sheet
Commenced	Sept.26,1977 Location Up 1 Claim Tests at Hor. Comp.	· · · · · · · · · · · · · · · · · · ·	·····				-	
Completed	Oct. 27,1977 Core Size 134-887 BQ Wirine Corr. Dip Vert. Comp.	······		ŝ		°06-	2250'	1000
Co-ordinates	887-1000' AQ " True Brg. Logged by	W.E. Lur	mley			ġ.		اغ ف
Objective To de Poten	cermine stratigraphy and test the U ₃ 0 ₈ % Recov. 94.84% Date Oc	tober 19'	77	<u> </u> 0_	<u> </u>	Collar Dip	Elev.	Lengtn 10 Hole No. DDH IIP-1
Footage From To	Description	Sample No.	Length	Analy	sis			
0 - 24	H Casing							
24 - 54	N Casing							
54 - 134	B Casing							
134- 134.5	Granitic pebbles - possibly from overlying strata.							
134.5-135.1	Clay: soft; gradually becoming more silty with depth.							
135.1-137.0	Siltstone: banded; light grey and black contacts gradational							
137 - 139.5	Mudstone: black; weakly banded at 85° to core.							
139.5-141	Sandstone: dark to light gray, medium to coarse grained to maximum 1mm in							
	diameter fractured at 70 ⁰ to core axis.							
141 - 147	Lost core							
147 - 150	Claystone: black, fractured at 70° to core, shiny waxy appearance when cut with							
	knife. No silt detected when ground between teeth. All contacts							
	between units are gradational unless stated.		_					
150 - 152	Mudstone: banded; caused by increase in grain size to silt banding at 75° to					Ļļ		
	core axis. Shiny waxy appearance when cut with a knife. Silt					L		
	detected when ground between teeth.							
152 - 153.4	Claystone: as above at 147-150.					I		
153.4 - 155	Sandstone: argillaceous, coarse grained, loosely consolidated.					[
155 - 156	Lost core: some sand recovered.							
156 - 158.5	Mudstone: similar to section 150-152							
	11-							
	pp-1							

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Scale

Property	District	ole No.								
Commenced	Location	ests at	lor. Comp.		<u>.</u>					
Completed	Core Size C	corr. Dip	/ert. Comp.							
Co-ordinates	Т	rue Brg.	ogged by					Dip		
Dijective	%	6 Recov.	Date			Claim	Brg.	Collar	Elev.	Length
ootage	Description			Sample	Length	0 Ana	∣⊢ lysis	Ŭ		Ľ
rom To				No.					+	
158.5-160.9	Grit Unit: light grey, loosely consolidated.			·			_	<u> </u>		
	dark grey quartz pebbles up to maxi	······································	-				<u> </u>	<u> </u>		
	by coarse sand silt and minor clay	····				 			- 	
	minor feldspar mica and secondary p	oyrite seen average grain s	ize					<u> </u>		
	approximately 2mm in diameter.						╡	+		
160.9-161.5	Claystone: dark green grey				-		—	<u> </u>	\downarrow	
161.5-163.2	Grit Unit: As above with some minor coal part	ings.				- 	—	<u> </u>	$\left \right $	
163.2-163.6	Claystone: as above.			· · · · · ·		ļ		<u> </u>	<u></u>	
163.6-181.2	Grit Unit: as above at 161.5-163.2.				-	ļ			_]	
181.2-181.4	Claystone:						<u> </u>	<u> </u>		
181.4-184	Grit Unit							<u> </u>		
184-187	Mudstone: black, almost shale; some coal partin	igs.			ļ		<u> </u>	Ļ	ļ	
187-188.2	Sandstone: light grey;medium to coarse graine	d (maximum 1mm in diameter); arkosic		_					
188.2-194.5	Mudstone: dark green grey, some laminations a	it 70 ⁰ to core axis becomin	g	l			-	<u> </u>		
	carbonaceous with depth.				_		_			
194.5-207.9	Coal: Locally silty; exhibits shiny lustre wit	h local resin pods.	·····		ļ	<u> </u>	_	<u> </u>	\perp	
207.9-209.1	Mudstone: dark green grey.					<u> </u>				
	Coal: Minor Clay partings.]	
210.3-211.2	Broken Core: recovery appears to be competent	claystone unit.								
	Coal: shiny lustre hard					 				
	Mudstone: dark green grey slightly silty.	/								

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Colour Plot

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Scale

Property	District Ho	ble No.		-						
Commenced	Location Te	ests at	Hor. Comp.							
Completed	Core Size Co	orr. Dip	Vert. Comp.							
Co-ordinates	Tr	ue Brg.	Logged by]		Dip		
Dbjective	%	Recov.	Date			Claim	Brg.	Collar	Elev.	Length
ootage rom To	Description			Sample No.	Length	Ö Ana	lysis	Ŏ 		<u>ت</u>
213.2-215.3	Coal: silty									
215.3-219	Mudstone: dark green grey with coalified wood	detritus					<u> </u>			
219-233.6	Coal: locally silty with silty banding at 90°	to core axis. Larg	e 12mm wide							
	resin pod at 227.5 locally fracture	•								
233.6-236.3	Claystone: dark grey green.]				
236.3-237	Broken core: above unit.									
237.0-238	Coal: silty layered numerous resin pods.			_				<u> </u>		
238.2-240	Mudstone: layered, dark grey, layering at 80 [°]	to core axis. Some	coalified							
	wood detritus.	······································								
240-240.8	Coal: very good, shiny lustre.									
240.8-245.4	Mudstone Unit: dark green grey									
	Coal seam: 18mm in thickness @ 243.4									
245.4-245.9	Coal seam									
245.9-246.7	Mudstone: as above									
246.7-247	Coal seam	•						<u> </u>		
247-251	Claystone: dark grey green becoming black and	carbonaceous with d	epth.							
251-260.5	Coal: silty and shaly fracturing at 70° to co.	re axis.		_		·	<u> </u>			
260.5 - 267	Grit Unit: Dark grey to black, very carbonace	ous with $coal = 25$ %	of rock			<u> </u>				
	composition - large quartz pebbles	up to 3mm in diamete	r			<u> </u>	<u> </u>	ļ		
267-268.3	Claystone Unit: light green; contains some coa	lified wood.								
268.3-277	Grit Unit: silty, argillaceous large (5mm) dar	k grey quartz pebble	s with carbon,							
	mica clay and silt.					[

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Colour Plot & Dips

Scale

Drill Hole F	cord		Comineo							
Property	District	Hole No.	* *							Sheet
Commenced	Location	Tests at	Hor. Comp.							0
Completed	Core Size	Corr. Dip	Vert. Comp.]				
Co-ordinates		True Brg.	Logged by					Dip		ġ
Objective		% Recov.	Date			Claim	Brg.	Collar	Elev.	Hole No.
						<u></u>	⊢	ပိ	Elev.	R R
	Description			Sample No.	Length	Anal	ysis	T	[
						1		1	<u>†</u> †	
	Coal Seam					<u> </u>	<u> </u>	1		
	Claystone: dark grey green		logiagated			<u> </u>		1		
	Clay (Bentonite?): light green ver					<u> </u>	<u> </u>	·{		
279.3-287.0	Silstone: banded;dark to light gre	y bands dependant on grain	I SIZE and at			1				
	75 [°] -90 [°] to core axis.	h a knifa				1				
	Mudstone: waxy lustre when cut wit		woon units showe							
297.4-303	Sandstone: silty, very fine graine	d, gradational contact bet	ween units above					+		
	and below.		have the wind ha			+				
303 - 316.5	Grit Unit: Moderate to well sorted						<u> </u>	+		
		num) in a matrix of very co			-		<u></u>			
		te, muscovite and secondar				·				
		artz, minor pink feldspar	and volcanic						┼─┼	
	(basalt).						 			
316.5-321.7	Sandstone: fine to medium grained	some coal partings, arkosi	lc.							
321.7-322.2	Clay: very soft, light grey.								┼╌╌┠	
322.2-327.7	Siltsone: weakly banded at 70° to	core axis; some coal partir	ngs.			· 		+	┨	
327.7-334.4	Lost core: some recovery of coal	(broken).				<u> </u>				
	Coal: shaly approximately 50% coal									
335.7-336.3	Siltstone: dark grey weakly banded	a at 70 [°] to core axis.				ļ	ļ			
336.3-336.8	Sandstone: light grey medium graine	ed, arkosic.				_		<u> </u> .	↓↓	
336.8-345.	Siltstone: as above at 335.7'-336.	3'.							ļ	
			AD .							

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Colour Plot & Dips

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Scale

Property	Immenced Location Tests at Hor. Comp pleted Core Size Corr. Dip Vert. Comp rdinates True Brg. Logged by										
Commenced		Location	Tests at	Hor. Comp.							
Completed		Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates			True Brg.	Logged by					Dip		_
Objective		<u></u>	% Recov.	Date			laim	Brg.	Collar	Elev.	rengtn
ootage	Description			·	Sample	Length	O Anal	┣	<u>ŏ</u>		<u> </u>
rom To 345-349	Claystone	Unit: very soft;dark br	cown to black		No.		┨			┟╾──╂╼	
			<u> </u>	· · · · · · · · · · · · · · · · · · ·			-			\vdash	
349-365		soft; increase in silt a					 				
365-367			some feldspar and mica.						l	<u> </u>	
367-378.6	····	······································	ally pyritiferous, carbon =				<u> </u>	 		┢┣-	
378.6-385	Conglomera	glomerate Unit: clasts of fine pebble gravel more numerous and more densely packed than grit unit. Clasts consist largely of dark grey quartz minor feldspar & volcanic fragments.									
· · · · · · · · · · · · · · · · · · ·				f dark grey quartz						┝──╋	
			·····			· · ·				┟┡	
<u></u>	·····		seen cutting the unit. The							┟╼╍┟	
			ntact at 40° to core axis,	lower contact at		-	<u> </u>		<u> </u>	┝──╄	
		90° to co					ļ		'	├ ─── ┤ ─	
			ntact at 70° to core axis;	lower contact at						<u> </u>	
		90 ⁰ to co					 	 		 	
		382-382.2,382.3-382.4 -	- contacts at 90 ⁰ to core a	axis.			1				
385392.4	Sandstone:	silty, fine grained, 1	light grey in colour.						L		
392.4-394.3	Claystone:	same as unit found at	345349.								
394.3-398.5	Sandstone:	andstone: not as silty as unit above at 385.									
398.5-438.2	Mudstone:	Mudstone: dark green grey to light grey, uniform in composition and quite									
	l	competent. Broken core	408.0-417.0.	<u></u>					[]		
438.2-439.8	Grit Unit:	grain size to 5mm maxi	imum.								
439.8	Coal Seam:	5cm wide.							7		

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Colour Plot & Dipa

Scale

Property	District	Hole No.								
Commenced	Location	Tests at	Hor. Comp.							ľ
Completed	Core Size	Corr. Dip	Vert. Comp.			1				
Co-ordinates		True Brg. Logged by						Dip		Length
Objective		% Recov.	Date			<u>a</u>	Brg.	~	÷	Length
	· · · · · · · · · · · · · · · · · · ·					O I	<u> </u>	ပိ	Elev.	
Footage From To	Description			Sample No.	Length	Analy	/sis			
447.4-450.3	Siltstone: light grey to white 1	over contact at 75° to core								
450.3-452.2	Mudstone: as above.	ower contact at 75 to core	<u></u>							
452.2-456.1	Siltstone: identical to unit at	447.4-450.3.								
	Coal: 1.2cm thick at 4	55.3								
456.1-491.2	Mudstone: similar to above mudst	Coal: 1.2cm thick at 455.3 tone: similar to above mudstone but exhibits larger amount of coal partings; from 487-490.0 sedimentary breccia with clasts of grey green claystone set in a matrix of green grey mudstone.								
				+						
			<u> </u>							
491.2-492.5	Siltstone: light grey fine grained. Mudstone - as above.									
492.5-502	Mudstone - as above.									
502-502.8	Mudstone - as above. Siltstone: as above.									
502.8-512	Mudstone: as above but is cut by	Astone - as above. Ltstone: as above. Astone: as above but is cut by following: at 510.0 2.5cm wide soft gougy						-		
	clay; at 510.8 2.5cm w	ide siltstone lens.								
512-512.4	Siltstone - light grey.									
512.4-513	Mudstone - as above.									
513 - 513.2	Clay: soft,gougy (shear?)									
513.2-516.5	Mudstone: as above but cut by nu	merous soft clay layers (sh	ears?) at 80 ⁰ to core							
516.5-521.5	Coal: silty, coal = 40% of secti									
	are at 517.9 (5cm thic	k) and at 520.2 (also 5cm t	hick).							
521.5-524.5	Siltstone: as above.									
524.5-528.7	Grit Unit: grains up to 5mm in d	iameter								
528.7-533.5	Sandstone & siltstone: alternati	ng thin bands 1" to 9" in t	hickness. /					1		
			the							

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Colour Plot & Dips

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Property	District	Hole No.	• •							
Commenced	Location	Tests at	Hor. Comp.							
Completed	Core Size	Corr. Dip	Vert. Comp.			-		٩		
Co-ordinates		True Brg.	Logged by		·			r Dip		£
Objective		% Recov.	Date			Claim	Brg.	Collar	Elev.	Length
ootage	Description		· · · · · · · · · · · · · · · · · · ·	Sample	Length	O Analy		0	<u> </u>	<u></u>
rom To				No.			<u> </u>	<u> </u>	 	
533.5-535.5	Siltstone: light to dark grey beca	oming more carbon rich with	depth.			ļ!	<u> </u>	<u> </u>	ļ]	
535.5-539.9	Coal: silty, shaly, numerous res:	in pods;coal = 40-50% of se	ction, cut by			! ا		_		
	several soft clay lense	es which are seen at: 538.0	(2.5cm thick),			ļ!	<u> </u>	<u> </u>	ļ]	
	538.5 (2.5cm thick), 5	39.7-539.9.				ļ!	<u> </u>	ļ		ļ
539.9-541.7	Grit: well sorted; upper contact s	sharp at 90 ⁰ to core.				<u> </u>		<u> </u>	<u> </u>	
541.7-543.3	Siltstone: banded, light grey to a	lark grey.				ļ'		<u> </u>		
543.3-547	Grit unit: as above.					! !	<u> </u>	<u> </u>	<u> </u>	
547-549.5	Sandstone: medium to coarse grain	ned,				<u> </u>	ļ	<u> </u>	<u> </u>]	
549.5-551.8	Grit unit: as above.	<u></u>				<u>ا</u> ا	<u> </u>	<u> </u>	ļ!	·
551.8-555	Lost core - some very large quart:	z and pebbles recovered.				ļ	 	<u> </u>	ļ!	
555-562.5	Grit Unit: lower contact gradation	onal.				ļ!	ļ			ļ
562.5-563	Siltstone: banded as above.					ļ	ļ	<u> </u>	-	
563-563.3	Coal: shaly	·				ļ	<u> </u>	ļ		
563-564.2	Silstone: as above.						<u> </u>	<u> </u>		
564.2-567	Grit Unit: finer grained than oth	ner grit units.				ļ	ļ	ļ	ļ	
567-569	Mudstone: banded, light grey to a		core. Some minor			-	<u> </u>	<u> </u>		
	coal partings.					ļ'	_	<u> </u>		
· · · ·	Coal seam: 4cm thick a	at 75 ⁰ to core at 569.	<u> </u>				ļ	\square		ļ
569 - 571	Mudstone: as above.					·	<u> </u>	ļ	ļ!	 -
571 - 579	Lost core						 			
579 - 583	Mudstone: black carbonaceous beco	ming banded.	1	1						ĺ

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Colour Plot & Dips

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roperty	District	Hole No.	••							
Commenced	Location	Tests at	Hor. Comp.							
Completed	Core Size	Corr. Dip	Vert. Comp.			1				
o-ordinates		True Brg.	Logged by			1		di		
bjective		% Recov.	Date			Claim	Brg.	Collar	۲. ۲.	Length
				· · · · · · · · · · · · · · · · · · ·		10	IH	ပိ	Elev.	E F
ootage rom To	Description			Sample No.	Length	Anal	ysis			
583 - 587	Lost Core									
587 - 590.4	Sandstone: medium to coarse grain	ned max. grain size 1mm.								
		at lower contact (590.4).								
590.4-599.8	Coal: clay rich;coal 40-50%.									
599 - 610.2	Grit Unit: Graded bedding noted.									
610.2-612	Mudstone: black carbonaceous									
612 - 612.9	Coal: silty;coal 50-70%.									
612.9-617.6	Grit Unit: bordering on coarse g	rained sandstone, arkosic.								
617.6-619.4	Siltstone: banded; becomes more ca	arbon rich with depth.	······································					<u> </u>		
619.4-620.9	Mudstone: coal rich in partings :	20-30%.								
620.9-632.6	Sandstone: medium grained, grain	size decreasing with depth.	· · · · · · · · · · · · · · · · · · ·				<u> </u>			
632.6-633.3	Siltstone: brown;2.5cm thick coal	<u>seam at 630.8.</u>	······································							
633.3-661.3	Grit unit with minor silt and coa	al bands coal seams all 2.5c	m thick are							
	found at 633.5', 658.4	659.0'.					L	_		
661.3-662.8	Siltstone: clay rich with coal se	eam 4cm thick at 661.6.	······································		_					
662.8-664.1	Sandstone: coarse grained; some m	inor coal partings, arkosic.					ļ	ļ		
664.1-664.5							<u> </u>			
664.5-665.8	Sandstone: fine to medium grained	1						1		
						1				

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Colour Plot & Dips

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Property	District Hole N	10.	◆ ◆							
Commenced	Location Tests	at	Hor. Comp.			-				
Completed	bleted Core Size Corr. Dip Vert. Comp.									
Co-ordinates	True E	Brg.	Logged by			-		Dip	i	Length
Objective	% Rec	COV.	Date			Claim	T Brg.	Collar	Elev.	Length
				Sample	Length	ට Analy	· · · · · · · · · · · · · · · · · · ·	<u>ت</u>	Ξ.	<u> Ľ</u>
ootage rom To	Description	······································		No.	Lenga			[]		
665.8-671.8	Coal: shaly with numerous resin pods.		<u></u>						<u> </u>	
671.8-679.4	Sandstone: very coarse grained; siltstone bands 2	cm wide at 678.8 at	55 ⁰						j	
	to core and at 679.2 at 90° to core.									
679.4-682.9	Coal: shaly silty									
682.9-684.9	Sandstone: coarse grained.							ļ!		
684.9-685.4	Siltstone: dark gray	· · · · · · · · · · · · · · · · · · ·	· · ·							
685.4-691.6	Sandstone: as above with silt band 2cm thick at	688.7 and a 2cm thi	ck coal					ļ	· · · · ·	
	seam at 260.9	<u> </u>								
691.6-695	Siltstone: as above with 7cm thick coal seam at	693.3								
695-698.6	Sandstone: medium grained.	····						ļ!		
698.6-702	Clay: v.soft dark grey (fault?).								⊢	
702-704.2	Grit Unit: grain size 2-4cm.							<u> </u>	⊢	
704.2-706.7	Siltstone Unit: banded light to dark grey.	·			_			ļ/		
706.7-707.3	Sandstone Unit: medium grained, very light grey.		· · · · · · · · · · · · · · · · · · ·				ļ	ļ'	 	
707.3-828.4	Grit Unit: uniform quite competent; granular size	grains locally pse	udo con-				ļ	ļ	⊦∔	
	glomeratic;same unit as is seen in res]		ļ	jļ	
828.4-872.4	Silstone-Sandstone: minutely banded, alternating	bands up to 10.0 cm	in thickness		_			ļ	i	
	of sandstone and siltstone at 90° to c	ore axis. Bands ex	hibit					ļ	 .	
	sedimentary structures such as ripple ma	rks, load casts, fl	ute casts						├	
	throughout section.	<u> </u>							<u> </u>	
872.4-890.9	Grit Unit: typical but little finer grained with	grain size decreas	ing							
	with depth.		14							

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Drill Hole F cord

Construction Contractor Contractor

Colour Plot & Dipa

Scale

Drill Hole F	? cord			Cominco							
Property		District	Hole No.	••	•						Sheet
Commenced		Location	Tests at	Hor. Comp.							0 S
Completed		Core Size	Corr. Dip	Vert. Comp.							
o-ordinates			True Brg.	Logged by					Dip		4
bjective			% Recov.	Date			aim	Brg.	Collar	Elev. Length	
					··· , ···	1	ō		రి	د ق	
otage om To	Description				Sample No.	Length	Analy	ysis			
	NOTE: 0-8	80' cased with BWL casing	g and drilling from 887-100	00' was done							
		ch AQ wireline.									
390.9-892	Shale:		lmm maximum) very dark brow	wn, well developed							
		fissility.									
892907.2		Black and characterized	by several thin soft silid	ca rich laminations				<u> </u>	<u> </u>		
		1.0-1.2cm thick.	_					ļ			
07.2-912		Very dark brown ;laminat:	ions widening into banding.	•				<u> </u>	<u> </u>		
912 - 924		Black, banded, with numer	rous soft clay rich silica	bands up to 2.0			<u> </u>			<u> </u>	
		cm in thickness.							 		
924 - 924.7	Clay:	very soft, silty, dark of	grey in colour.			-		ļ	_		
924.7-942.7	Shale:	Brown shale with the so	ft silty bands becoming mon	re numerous with			ļ			ļ	
		depth.						ļ	_		\square
942.7-943.5	Clay:	very soft as above.						<u> </u>	_		
943.5-944.8	Shale:	as above at 924.7-942.7	•				ļ!	 	↓	L	
944.8-945.3	Clay:	as above (924.0-924.7).				·	<u> </u>	<u> </u>	_		
945.3-970.0	Shale:	Dark grey becoming more	silty and competent with c	depth		_	ļ!	ļ	<u> </u>		
970 - 975.6	Mudstone:	very silty, quite compos	tent, dark green grey passi	ing to light grey				ļ	<u> </u>		
		at lower contact. Lacks	s fissility found above.					_	_		
975.6 987.4	Sandstone:	medium grained competent	t and uniform throughout; ir	ncrease in grain			ļ!	 	 	 	
		size abrupt at lower con	ntact.					 	 	 	
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				HP -			1 !				· [

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Colour Pio & Dips

Scale

Property		District	Hole No.								
Commenced		Location	Tests at	Hor. Comp.							
Completed		Core Size	Corr. Dip	Vert. Comp	·						Length
Co-ordinates			True Brg.	Logged by			1		dia		-
Dbjective			% Recov.	Date			Claim	T Brg.	Collar Dip	Elev.	Length
ootage	Description				Sample No.			lysis	<u>l</u> õ		<u> </u>
rom To					No.	_		<u> </u>	<u> </u>		
987.4-992.9	Grit Unit							<u> </u>	_	┞	
92.9-1000'			some laminations at 70° to	core; 2.5cm				<u> </u>	<u> </u>		<u></u>
	C	oal seams at 993.4' ar	nd 994.2'.	<u></u>					ļ	ļ	
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		END C	OF HOLE								
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DRILL DATA FOR DIAMOND DRILL HOLE

UP-1 ON THE UP CLAIM GROUP

DRILL HOLE DIP LOCATION CORE SIZE BEARING DEPTH -90⁰ UP-1 UP #1. 1000' BQ & AQ

All drill core is stored in core trays at Cominco's Warehouse in Vancouver.

The location of the hole has not been surveyed and hence its exact location is not known.

Signed by:

R.J. Nicholson, P. Eng.

Approved for Release by:

Attachments:

1. UP Claims - Drill Hole Location Map, 1:50,000

2. Drill Hole Record: DDH UP-1