ARCHER, CATHRO
& ASSOCIATES (1981) LIMITED
CONSULTING GEOLOGICAL ENGINEERS

1016 - 510 WEST HASTINGS STREET
VANCOUVER, B.C. V6B 1L8

(604) 688-2568

091894

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REPORT ON

DIAMOND DRILLING

done on the

MT. NANSEN PROPERTY

located at

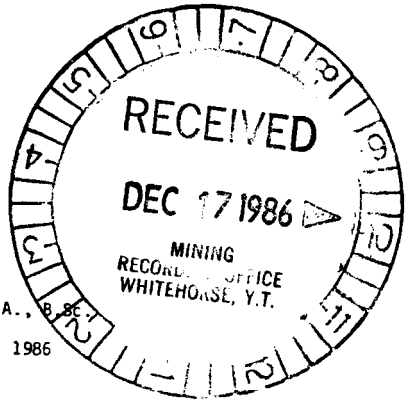
Latitude 62°05'N and Longitude 137°08'W

on

NTS Map Sheet 115I/3

between

August 27 and September 10, 1986



W.D. Eaton, B.A., B.Sc.

December 5, 1986

BOX 4127, 3128 THIRD AVENUE, WHITEHORSE, Y.T. Y1A 3S9

(403) 667-4418

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17+000E
18+000E
19+000E
20+000E
22+000N
21+000N
20+000N
19+000N

A B C D E F G H I J K L M N O P Q R S T U V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
NW NE SW SE

N

SCALE 1:5000
100 0 50 100 200 300 400 Metres
100 0 50 100 200 300 400 Yards

OK 86-6
SOULTER ZONE
OK 86-5
BO 86-2
BO 86-1
"A" ZONE
OK 86-4
X 85-4
ORLOFF
X 85-3
KING ZONE
OK 86-3
BO 86-3
"B" ZONE
BO 86-4
OK 86-1
W86-36
SPUD Y ZONE
OK 86-2
W86-37
W86-38
WCF 86-1
FAULT
CREEK
WEBBER
W86-39
W86-45
UPPER WEBBER PORTAL
LOWER WEBBER PORTAL
W86-40
W86-41
W86-42
W86-47
W86-43
W86-31
W86-44
W86-46
W86-30
W85-8
W86-42
W85-18
W85-19
W85-9
W85-15
W85-14
W85-1
W85-12
W85-13
W85-6
W85-21
W85-7
W86-32
W86-33
W85-3
CABIN
W85-4 ZONE Y
W85-5
W86-35
W86-34
SPENCER ZONE
WEBBER ZONE
DOME 1
DDH 86-35
PDH 86-34
DDH 86-32
DDH 86-31
DDH 86-29
DDH 86-27 & 28
DDH 86-25
W86-22
W86-23
W86-21
W85-17
W85-10
W85-11
W85-11X
DOME 6
FLEX
DDH 86-30
DDH 86-33
DDH 86-36
W86-20
ZONE
W86-24
DDH 86-26
W86-26
W86-28
H86-8
H86-9
W86-27
HUESTIS ZONE
H86-1
GD86-3
GD86-2
GD86-1
GD86-4
GD86-5
DICKSON ZONE
W786-1
UPPER HUESTIS PORTAL
LOWER HUESTIS PORTAL
MILL
MILL ZONE
H86-4
H86-3
X 85-2
H86-7
H86-5
H86-6
H86-2
BMX86-4X
BMX86-29
BROWN-McDADE
BMX85-4
BMX86-3XE
BMX85-3
BMX86-20
BMX86-19
BMX86-18
BMX86-3XW
BMX86-17
BMX86-16
BMX86-23
BMX86-16X
EXTENSION ZONE
BMX86-24X
BMX86-21
BMX86-22
BMX86-24
BMX86-15
BMX86-14
BMX86-13
BMX86-11
BMX86-12
BMX86-1
BMX85-9
BMX86-10A
BMX86-8A
BMX85-27
BROWN-McDADE II ZONE
BROWN-McDADE PORTAL
BM85-1
BM85-2
BM85-15
BM85-3
BM85-4
BM85-5
BM85-14
BM85-13
BM85-16
BM85-6
BM85-8
BM86-16X
BM85-9
BM86-18
BM85-10
BM85-11
BROWN-McDADE MAIN ZONE
BM85-12
BM86-12X
BM86-17
BMX85-6
BMX85-5

LEGEND
1985 or 1986 TRENCH
1986 DRILL HOLE
VEIN FAULT
CROSS FAULT

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TRENCH & DRILL HOLE
LOCATION MAP

FIGURE No. V-1		PROJECT No. NANSEN	
DATE: December/86	REVISIONS		SCALE 1:5000
NTS No.			FILE No.
COMPILED BY ARCHER, CATHRO & ASSOCIATES (1981) LIMITED.			

WEBBER UPPER LEVEL

0.057/1.75 2.0

0.068/11.00 1.0

0.075/0.47 4.1

0.180/6.70 11.0

0.190/9.74 1.0

0.099/1.41 1.0

0.050/5.07 1.0

0.160/4.20 1.0

0.141/0.06 2.0

0.166/21.36 2.0

0.224/6.85 1.0

0.048/8.10 5.0

0.111/1.37 1.0

0.38/0.42 1.0

0.142/6.10 1.0

0.200/2.70 1.0

0.330/8.17 2.0

0.132/10.90 1.5

0.048/1.25 3.5

0.046/0.26 1.0

0.120/0.41 1.0

0.042/0.34 1.0

0.040/0.06 1.0

0.224/1.64 4.0

0.084/7.18 2.7

0.043/0.41 3.5

0.069/1.70 1.5

0.040/1.66 4.0

0.065/22.98 3.5

0.062/4.37 1.2

NOT TO BEDROCK

0.075/3.07 7.0

0.156/4.23 2.0

0.452/28.30 1.0

0.560/40.50 1.0

0.069/0.13 5.0

0.040/1.43 5.0

0.041/0.63 2.5

0.119/0.28 3.5

0.104/5.22 0.5

0.087/1.04 2.5

0.103/2.30 4.6

0.115/1.79 2.2

0.110/0.54 7.0

0.216/2.97 1.5

0.146/1.98 11.0

0.82/0.77 8.5

0.402/0.34 0.8

NOT TO BEDROCK

0.185/1.95 6.5

0.057/0.83 4.0

0.063/0.63 3.5

HUESTIS 4300 LEVEL

II VEIN DRIFT

12 VEIN DRIFT

13 VEIN DRIFT

0.122/4.32 2.0

0.057/1.85 2.9

0.153/4.08 6.0

0.493/4.01 4.3

0.068/1.31 1.0

0.221/8.45 5.0

0.049/1.72 1.5

0.056/0.89 2.0

HUESTIS 4300 LEVEL

17+200E 17+400E 17+600E 17+800E 18+000E 18+200E 18+400E

20+400N 20+200N 20+000N 19+800N

0 50 100 metres

NW NE SW SE

LEGEND

- underground workings
- excavator trench with survey points
- diamond drill hole
- vein trace, known and inferred
- mineralized interval with gold value ≥ 0.040 oz/ton
- weakly mineralized vein zone
- weakly mineralized breccia zone
- unmineralized crossfault
- 0.103/2.30 4.0 — oz/ton Au / oz/ton Ag, width in metres
- note: where multiple mineralized intervals occur in trench, values listed top to bottom from northeast to southwest

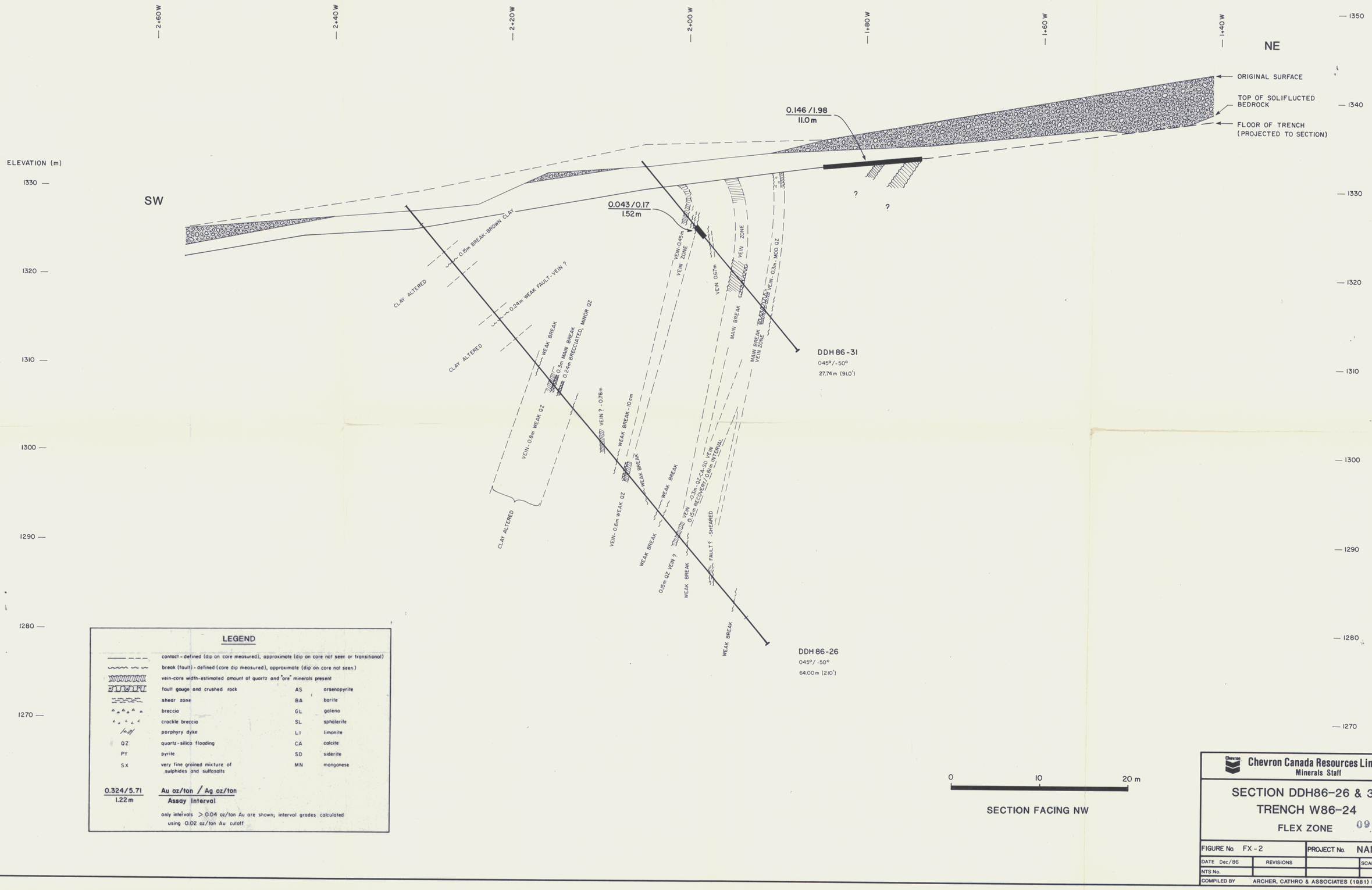
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GEOLOGY & ASSAYS

FLEX, HEUSTIS & WEBBER ZONES

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FIGURE No. FX-1		PROJECT No. NANSEN	
DATE DEC / 86	REVISIONS		SCALE 1:1000
NTS No.			FILE No.
COMPILED BY	ARCHER, CATHRO & ASSOCIATES (1981) LIMITED		



LEGEND

——— – – –	contact - defined (dip on core measured), approximate (dip on core not seen or transitional)		
~~ ~~~	break (fault) - defined (core dip measured), approximate (dip on core not seen)		
	vein-core width-estimated amount of quartz and "ore" minerals present		
	fault gouge and crushed rock	AS	arsenopyrite
	shear zone	BA	barite
	breccia	GL	galena
	crackle breccia	SL	sphalerite
	porphyry dyke	LI	limonite
QZ	quartz - silica flooding	CA	calcite
PY	pyrite	SD	siderite
SX	very fine grained mixture of sulphides and sulfosalts	MN	manganese

0.324/5.71
1.22m

Au oz/ton / Ag oz/ton
Assay Interval

only intervals > 0.04 oz/ton Au are shown; interval grades calculated using 0.02 oz/ton Au cutoff

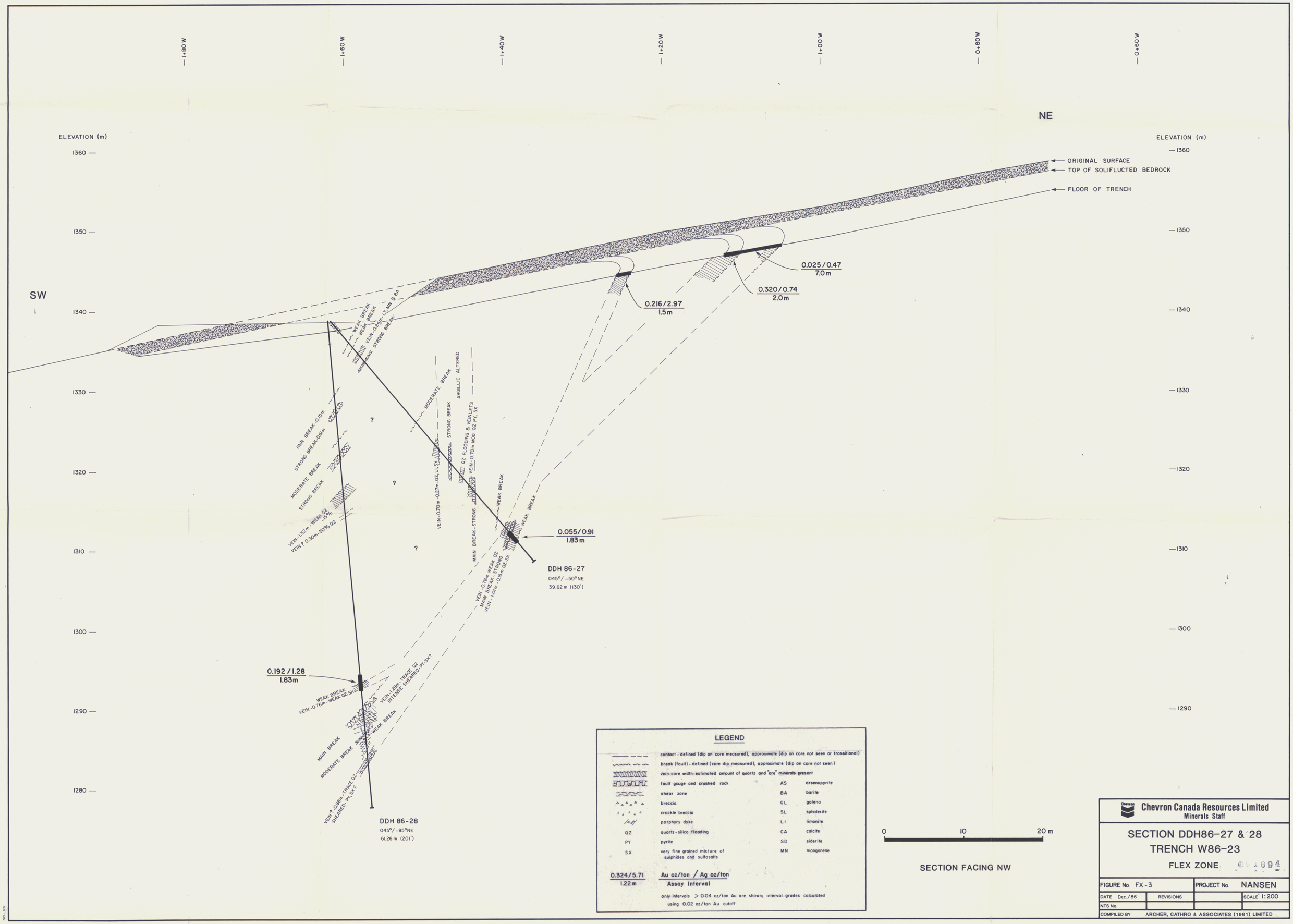
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SECTION DDH86-26 & 31
TRENCH W86-24
FLEX ZONE

091894

FIGURE No. FX - 2		PROJECT No. NANSEN	
DATE Dec/86	REVISIONS		SCALE 1:200
NTS No.			FILE No.
COMPILED BY	ARCHER, CATHRO & ASSOCIATES (1981) LIMITED		

NO. 489



LEGEND

———	contact - defined (dip on core measured), approximate (dip on core not seen or transitional)		
~~	break (fault) - defined (core dip measured), approximate (dip on core not seen)		
	vein-core width-estimated amount of quartz and "ore" minerals present		
	fault gouge and crushed rock	AS	arsenopyrite
	shear zone	BA	barite
	breccia	GL	galena
	crackle breccia	SL	sphalerite
	porphyry dyke	LI	limonite
QZ	quartz - silica flooding	CA	calcite
PY	pyrite	SD	siderite
SX	very fine grained mixture of sulphides and sulfosalts	MN	manganese

0.324/5.71 / 1.22m — Au oz/ton / Ag oz/ton; Assay Interval

only intervals > 0.04 oz/ton Au are shown; interval grades calculated using 0.02 oz/ton Au cutoff

0 10 20 m

SECTION FACING NW

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Minerals Staff

SECTION DDH86-27 & 28
TRENCH W86-23
FLEX ZONE

FIGURE No. FX-3		PROJECT No.	NANSEN
DATE Dec./86	REVISIONS		SCALE 1:200
NTS No.			
COMPILED BY	ARCHER, CATHRO & ASSOCIATES (1981) LIMITED		



LEGEND

——— – – –	contact - defined (dip on core measured), approximate (dip on core not seen or transitional)		
~~	break (fault) - defined (core dip measured), approximate (dip on core not seen)		
	vein-core width-estimated amount of quartz and "ore" minerals present		
	fault gouge and crushed rock	AS	arsenopyrite
	shear zone	BA	barite
	breccia	GL	galena
	crackle breccia	SL	sphalerite
	porphyry dyke	LI	limonite
QZ	quartz-silica flooding	CA	calcite
PY	pyrite	SD	siderite
SX	very fine grained mixture of sulphides and sulfosalts	MN	manganese

0.324/5.71 — Au oz/ton / Ag oz/ton
1.22m — Assay Interval

only intervals > 0.04 oz/ton Au are shown; interval grades calculated using 0.02 oz/ton Au cutoff

0 10 20 m

SECTION FACING NW

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SECTION DDH86-29, 30 & 32
TRENCH W86-16X
FLEX ZONE 091894

FIGURE No. FX-4		PROJECT No.	NANSEN
DATE Dec./86	REVISIONS		SCALE 1:200
NTS No.			FILE No.
COMPILED BY	ARCHER, CATHRO & ASSOCIATES (1981) LIMITED		

NO. 639

1+00 S | 0+80 S | 0+60 S | 0+40 S | 0+20 S

SW

NE

ELEVATION (m)

1350 —

1340 —

1330 —

1320 —

1310 —

1300 —

1290 —

ELEVATION (m)

— 1360

— 1350

— 1340

— 1330

— 1320

— 1310

— 1300

— 1290

ORIGINAL SURFACE

TOP OF SOLIFLUCTED BEDROCK

FLOOR OF TRENCH

BACKFILL FOR DRILLSITE

0.089 / 1.04
2.5 m

0.104 / 5.22
10.5 m

MAIN BREAK, 0.7m, 3% QZ

WEAK BREAK

WEAK BREAK - CA VEINLETS

WEAK BREAK

WEAK BREAK
WEAK BREAK

WEAK BREAK

STRONG CLAY ALTERED CRACKLE BRECCIA

DDH 86-33
045°/- 50°
51.82 m (170')

LEGEND

——— – – –	contact - defined (dip on core measured), approximate (dip on core not seen or transitional)		
~~	break (fault) - defined (core dip measured), approximate (dip on core not seen)		
	vein-core width-estimated amount of quartz and "ore" minerals present		
	fault gouge and crushed rock	AS	arsenopyrite
	shear zone	BA	barite
	breccia	GL	galena
	crackle breccia	SL	sphalerite
	porphyry dyke	LI	limonite
QZ	quartz - silica flooding	CA	calcite
PY	pyrite	SD	siderite
SX	very fine grained mixture of sulphides and sulfosalts	MN	manganese

0.324/5.71
1.22m

Au oz/ton / Ag oz/ton
Assay Interval

only intervals > 0.04 oz/ton Au are shown; interval grades calculated using 0.02 oz/ton Au cutoff

0 10 20 m

SECTION FACING NW

Chevron Canada Resources Limited
Minerals Staff

SECTION DDH86-33
TRENCH W86-25
FLEX ZONE

091894

FIGURE No. FX-5		PROJECT No. NANSEN	
DATE Dec./86	REVISIONS		SCALE 1:200
NTS No.			FILE No.
COMPILED BY	ARCHER, CATHRO & ASSOCIATES (1981) LIMITED		

NO. 699



LEGEND

——— – – –	contact - defined (dip on core measured), approximate (dip on core not seen or transitional)		
~~ ~~~	break (fault) - defined (core dip measured), approximate (dip on core not seen)		
	vein-core width-estimated amount of quartz and "ore" minerals present		
	fault gouge and crushed rock	AS	arsenopyrite
	shear zone	BA	barite
	breccia	GL	galena
	crackle breccia	SL	sphalerite
	porphyry dyke	LI	limonite
QZ	quartz-silica flooding	CA	calcite
PY	pyrite	SD	siderite
SX	very fine grained mixture of sulphides and sulfosalts	MN	manganese

0.324/5.71 — Au oz/ton / Ag oz/ton
1.22m — Assay Interval

only intervals > 0.04 oz/ton Au are shown; interval grades calculated using 0.02 oz/ton Au cutoff

0 10 20 m

SECTION FACINGZ NW

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SECTION DDH86-34

FLEX ZONE 091894

FIGURE No. FX-6		PROJECT No. NANSEN	
DATE Dec./86	REVISIONS		SCALE 1:200
NTS No.			FILE No.
COMPILED BY	ARCHER, CATHRO & ASSOCIATES (1981) LIMITED		

NO. 639

1+80E | 2+00E | 2+20E | 2+40E | 2+60E | 2+80E | 3+00E | 3+20E

ELEVATION (m)

SW — NE

ORIGINAL SURFACE
TOP OF SOLIFLUCTED BEDROCK
FLOOR OF TRENCH (PROJECTED TO SECTION)

0.075 / 3.07
7.0m

0.156/4.23
2.0m

0.261 / 9.71
2.59 m

STRONG BREAK
NARROW BANDS QZ, PY, SX
VEIN - 0.7m, 50% QZ, SX, GL, SL
STRONG BREAK
VEIN ZONE
BRECCIA ZONE
WEAK QZ VEINING
VEIN ?- 0.15m
RARE WEAK - 6cm BANDS QZ
VEIN - 0.82m - WEAK QZ
MAIN BREAK
VEIN ZONE

DDH86-35
045° / -50° NE
46.02 m (151')

ELEVATION (m)
1410 — 1400 — 1390 — 1380 — 1370 — 1360 — 1350 — 1340 — 1330

LEGEND

———	contact - defined (dip on core measured), approximate (dip on core not seen or transitional)		
~~	break (fault) - defined (core dip measured), approximate (dip on core not seen)		
	vein-core width-estimated amount of quartz and "ore" minerals present		
	fault gouge and crushed rock	AS	arsenopyrite
	shear zone	BA	barite
	breccia	GL	galena
	crackle breccia	SL	sphalerite
	porphyry dyke	LI	limonite
QZ	quartz - silica flooding	CA	calcite
PY	pyrite	SD	siderite
SX	very fine grained mixture of sulphides and sulfosalts	MN	manganese

0.324/5.71
1.22m

Au oz/ton / Ag oz/ton
Assay Interval

only intervals > 0.04 oz/ton Au are shown; interval grades calculated using 0.02 oz/ton Au cutoff

0 10 20 m

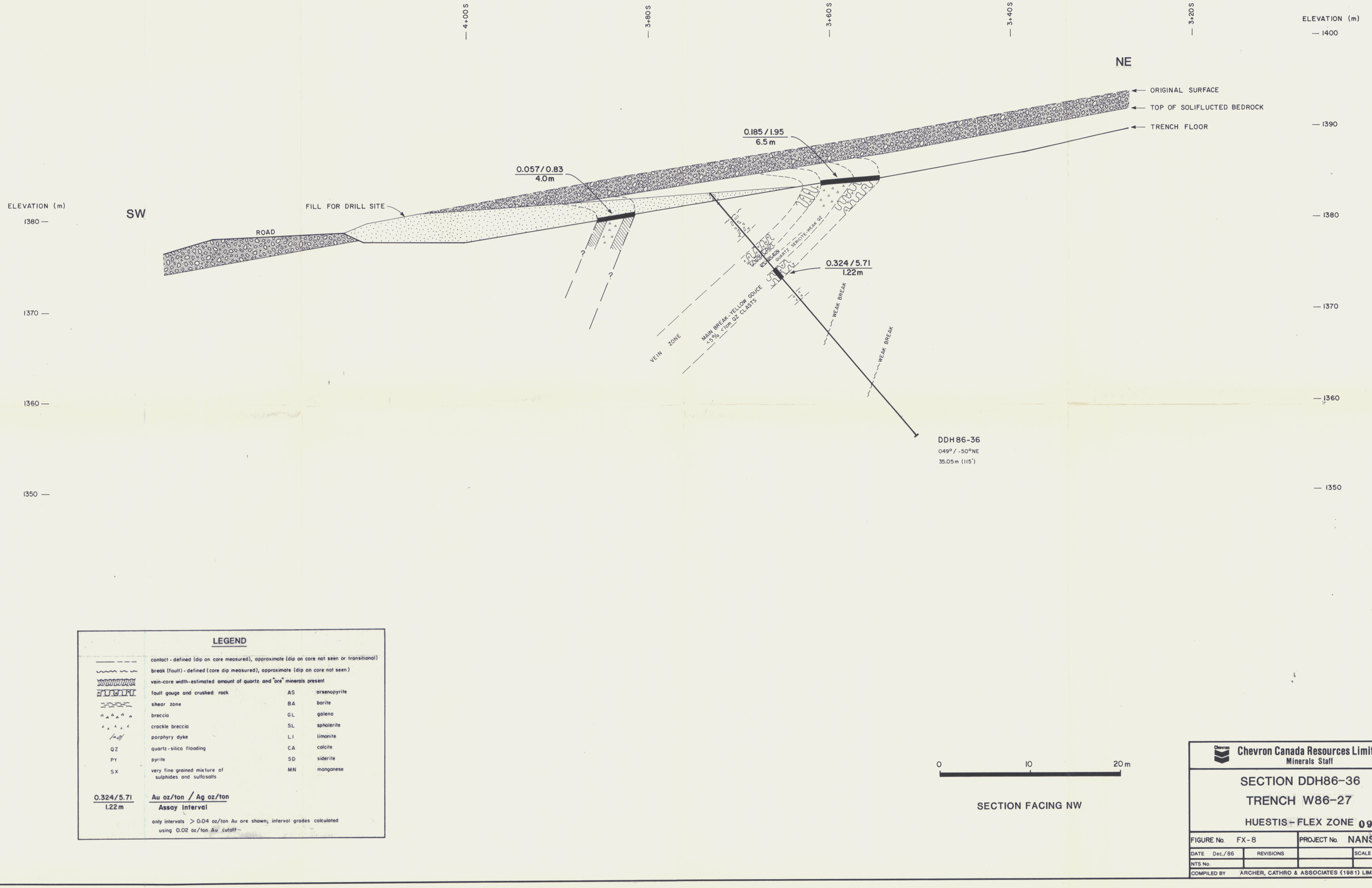
SECTION FACING NW

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SECTION DDH86-35
TRENCH W85-11
FLEX ZONE

FIGURE No. FX-7		PROJECT No. NANSEN	
DATE Dec./86	REVISIONS		SCALE 1:200
NTS No.			FILE No.
COMPILED BY	ARCHER, CATHRO & ASSOCIATES (1981) LIMITED		

NO. 639



LEGEND

———	contact - defined (dip on core measured), approximate (dip on core not seen or transitional)		
~~	break (fault) - defined (core dip measured), approximate (dip on core not seen)		
	vein-core width-estimated amount of quartz and "ore" minerals present		
	fault gouge and crushed rock	AS	arsenopyrite
	shear zone	BA	barite
	breccia	GL	galena
	crackle breccia	SL	sphalerite
	porphyry dyke	LI	limonite
QZ	quartz - silica flooding	CA	calcite
PY	pyrite	SD	siderite
SX	very fine grained mixture of sulphides and sulfosalts	MN	manganese

0.324/5.71 / 1.22m — Au oz/ton / Ag oz/ton; Assay Interval

only intervals > 0.04 oz/ton Au are shown; interval grades calculated using 0.02 oz/ton Au cutoff

Chevron Canada Resources Limited
Minerals Staff

SECTION DDH86-36
TRENCH W86-27
HUESTIS - FLEX ZONE 091894

FIGURE No. FX-8		PROJECT No. NANSEN	
DATE Dec./86	REVISIONS		SCALE 1:200
NTS No.			
COMPILED BY	ARCHER, CATHRO & ASSOCIATES (1981) LIMITED		

NO. 689

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES 091894

HOLE No.	PROJECT	TARGET	STARTED : AUG. 27/86
DDH86-26	**NANSEN**	FLEX ZONE	FINISHED : AUG. 30/86
COORDINATES N: 19869.27 E: 17857.53	AZ: 045° EL: 1326.97	DIP-COLLAR: -50° ACID DIP TEST: -49°	T.D. 64.01m (210')
			LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS; QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS; QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

P – PERVASIVE
>– PERVASIVE> VEINLET
<– VEINLET< PERVASIVE
V – VEINLET
E – ENVELOPES

AMOUNT

N – NIL
L – LOW TRACE
F – FAIR
M – MODERATE
A – ABOVE AVERAGE
H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- △ – BRECCIA
- CRACKLE BRECCIA
- 35°, ---- CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- ∠ – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	ALTERATION: FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag
		CASING - 0.46m PORPHYRY FLOAT													21.3					
2.44		AMPHIBOLITE	PROPYLITIC FACIES	PM	N	N	PL	VF	N	N	>F	N	VM	N	2.44					
															56					
															4.27					
															100					
															6.10					
			6.71 – –												100					
			SUPERGENE KAOLINITE												6.71					
8.08		MODERATE BREAK - 0.15m CLAY		PF				<M			>L		<M		100					
															8.23					
															100					
															8.99					
			9.91 – –												66					
								VF			>F		VM		9.91					
															100					
															11.28					
															100					
															12.80					
															96					
															14.33					
															100					
			15.54 – –												15.85					
16.55		WEAK BREAK	SUPERGENE - KAOLINITE	PF				<M			>L		<M		100					
															17.37					
															100					
															18.90					
			19.51 – –												100					
				PM				VF			>F		VH		20.42					
															100					
															21.95					
			22.71												100					
23.46		WEAK BREAK	KAOLINITE FACIES	N	N	N	N	<A — H	N	N	>F	N	<F	PL	22.86	23.16				
															100					
															23.47	R4550	85	1.07	0.005	<0.01
															83					
25.08		TRANSITION	25.08												24.30	24.23				
		VEIN	PHYLLIC FACIES												51		100	0.76	0.003	0.02
25.91		MAIN BREAK - 55°x - 0.3m CLAY	25.91	N	N	N	N	PL	PA	PL	N	N	<F	N	100	24.99				
			KAOLINITE FACIES													52	100	1.22	0.008	0.07
26.91		STRONG BREAK - 0.24m CLAY & BRECCIA		N	N	N	N	PH	N	N	N	N	<M	VA	26.21	26.21				
															100					
															53	100	1.22	0.003	<0.01	
															27.43					
														N	54	28.39	100	0.91	0.001	<0.02
								<A							28.34					
29.5		WEAK BREAK	29.5												100					
			PROPYLITIC FACIES	PM	N	N	PF	VF	N	N	PL	N	<F	N		55	100	1.68	0.004	0.01
															29.87					
															30.48	56	100	0.76	0.003	<0.01
															100	30.78				
															32.00					
															82					
															33.68	33.53				
34.29		WEAK BREAK	34.29												100					
35.05		VEIN?	KAOLINITE FACIES	N	N	N	N	PH	N	VL	N	N	<F	VF	35.05	35.05				
			35.05												100					
			MONTMORILLONITE FACIES	N	N	<F	PA	PF	N	VL	<F	N	<F	VF	36.58	58	97	1.83	0.001	0.03
															95					
37.18		WEAK BREAK - 50°x?													38.40	38.40				
38.43		STRONG BREAK - 50°x - 0.27m CLAY	38.43												80					
		VEIN	PHYLLIC FACIES - WEAK	N	N	N	N	PA	>F	VF	N	N	PL	N	39.17	59	87	1.22	0.021	0.06
39.31		WEAK BREAK	39.31												100	39.62				
			MONTMORILLONITE FACIES	N	N	<F	PA	PF	N	VF	<F	N	<F	VF	39.62	60	100	0.91	0.003	0.01
			40.69												100	40.54				
			PROPYLITIC FACIES	PA	N	N	PF	VF	N	N	>L	N	VL	N		61	100	1.22	0.004	0.01
42.21		WEAK BREAK - 20°x	42.21												41.76	41.76				
			MONTMORILLONITE FACIES	PF	N	>M	PM	>M	N	N	>F	N	<L	N	100	62	100	1.52	0.001	0.01
															43.28	43.28				
44.50		WEAK BREAK - 60°x													100	63	100	1.52	<0.001	0.03
															44.81	44.81				
															100	64	100	1.52	0.001	0.01
															46.33	46.33				
															17					
															47.24	65	18	1.52	<0.001	0.01
47.91		VEIN? - 0.30m - SHEARED	47.81 - 0.3m - WEAK CALCITE, QUARTZ SIDERITE, PYRITE VEINLETS												20	47.85				
															40	48.77	66	40	0.91	0.001	<0.01
49.68		WEAK BREAK - 40°x	49.68												100	48.77	67	100	1.52	<0.001	<0.01
			PROPYLITIC FACIES	PA	N	N	PF	PF	N	N	<F	N	VL	N	50.29	50.29				
															100	68	100	1.52	<0.001	0.02
			52.51												51.81	51.82				
			MONTMORILLONITE FACIES	PL	N	>F	PA	VF	N	N	<F	N	VL	N	100	69	100	1.52	0.001	0.02
53.64		SHEARED - 0.61m													53.34	53.34				
			54.25	PM	N	>H	PM	<F							100	R4570	100	1.52	<0.001	<0.02
															54.86	54.86				
															100					
															57.0					
58.0		WEAK BREAK	58.0												100					
				PF		<M	PM	PA			>F		<F		58.52					
															100					
															60.05					
															100					
															61.42					
															100					
															62.33					
															100					
64.01		END OF HOLE																		

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES 091894

HOLE No.	PROJECT	TARGET	STARTED : AUG. 30/86
DDH86-27	**NANSEN**	FLEX ZONE	FINISHED : AUG. 31/86
COORDINATES N: 19932.80 E: 17850.63	AZ: 045° EL: 1339.06	DIP-COLLAR: -50° ACID DIP TEST: -50°	T.D. 39.62m (130') LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS
  QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS
  QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

P – PERVASIVE
>– PERVASIVE> VEINLET
<– VEINLET< PERVASIVE
V – VEINLET
E – ENVELOPES

AMOUNT

N – NIL
L – LOW TRACE
F – FAIR
M – MODERATE
A – ABOVE AVERAGE
H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- △ – BRECCIA
- CRACKLE BRECCIA
- 75°, ---- CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- 4 – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	FACIES	ALTERATION: CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag
		CASING - DRILL PAD FILL													22					
1.82		QUARTZ-FELDSPAR-MUSCOVITE GNEISS	KAOLINITE FACIES	N	N	N	N	7H	N	N	N	N	<F	VL	1.82					
3.51		WEAK BREAK - 2cm CLAY													85 2.44					
4.27		WEAK BREAK 20°x - STRONG MN													100 3.66					
5.39		FRACTURE ZONE - STRONG LI±MN, BACRYSTALS													100 4.88					
6.64		STRONG BREAK - 0.18m CLAY													100 6.10					
															100 7.62					
															90 9.14					
															100 10.67					
															100 12.19					
															100 13.72					
															100 15.24					
16.76		WEAK BREAK - 5cm GOUGE												VF <M <A	100 16.76					
															100 18.29					
50°															100 19.81	19.81 R4501	100	0.61	0.001	<0.01
20.42		VEIN ZONE	20.42 SILIC FACIES - 0.27m QZ	N	N	N	N	PA PF	N	N PH	N	PF	PA	PL	100	20.42 02	100	1.22	0.006	0.13
21.12			21.12 KAOLINITE FACIES	N	N	N	N	PH	N	VL	N	N	<M	VL	21.34	21.64 03	93	1.22	0.004	0.02
															94 22.86	22.86 04	100	1.52	0.008	0.07
25.02		STRONG BREAK - CRUSHED & BROKEN - 0.42m						>F		VF			<F	N	100 24.38	24.38 05	100	1.52	0.004	0.05
		BAND - 0.27m SILICA FLOODING & QUARTZ VEINLETS													25.91	25.91 06	90	1.52	0.015	0.11
27.19		VEIN - 07m -	27.19 PHYLLIC FACIES	N	N	N	N	PF	PM	>F	PF	PF	PF	N	27.43	27.43 07	100	1.52	0.005	0.31
27.89		STRONG BREAK - 35°x	27.89 KAOLINITE FACIES	N	N	N	N	PH	N	N	N	N	<F	<A	28.96	28.96 08	100	1.52	0.007	0.15
29.56		SHEARED											<M	VL	100 30.48	30.48 09	100	0.91	0.002	<0.01
		STRONG FRACTURING											<L	N	100 31.39	31.39 10	100	1.52	0.002	0.09
31.1		AMPHIBOLITE													100 32.92	32.92 11	100	0.91	0.006	0.23
32.61		MODERATE BREAK - 03m													100 33.83	33.83 12	100	0.61	0.015	0.15
60°															100 34.44	34.44 13	100	0.61	0.114	1.90
33.99		STRONG BREAK - 0.4m GOUGE & CRUSHED ROCK	33.99 KAOLINITE - WEAK SILIC FACIES WEAK SULPHATE	N	N	N	N	PH	VF	>F	PL	PL	PF	N	100 35.05	35.05 14	100	1.22	0.025	0.42
34.75		CRUSHED BREAK - 0.45m VEIN ZONE													100 36.58	36.27 15	100	1.83	0.011	0.07
35°															100 38.10	38.1				
36.21		WEAK BREAK	36.21 KAOLINITE FACIES	N	N	N	N	PH	VF	VF	PF	PL	<L	N						
		QUARTZ FELDSPAR GNEISS																		
37.34		AMPHIBOLITE	37.34 MONTMORILLONITE FACIES	N	N	VF	PF	PA	N	N	PL	N	VL	N						
39.62		END OF HOLE													100	R4516	100	1.52	0.001	0.03

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No. 091894

CHEVRON CANADA RESOURCES

HOLE No.	PROJECT	TARGET	STARTED : AUG. 31/86
DDH86-28	**NANSEN**	FLEX ZONE	FINISHED : SEPT. 1/86
COORDINATES N: 19933.10 E: 17850.33	AZ: 045° EL: 1339.06	DIP-COLLAR: -85° ACID DIP TEST: -84°	T.D. 61.26m (201')
			LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS; QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS; QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

- P – PERVASIVE
- > – PERVASIVE > VEINLET
- < – VEINLET < PERVASIVE
- V – VEINLET
- E – ENVELOPES

AMOUNT

- N – NIL
- L – LOW TRACE
- F – FAIR
- M – MODERATE
- A – ABOVE AVERAGE
- H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- △ – BRECCIA
- CRACKLE BRECCIA
- 75° – CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- 4 – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	ALTERATION FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag
		CASING													04					
2.74		QUARTZ-FELDSPAR MUSCOVITE GNEISS	KAOLINITE FACIES	N	N	N	N	PA	VL	PL	N	N	<M	VM	2.74					
															100					
															3.96					
															100					
															5.49					
															100					
6.71		D/S STRONGLY FRACTURED													6.71	6.71				
															100	R4524	100	1.83	0.009	0.04
															7.92					
															100					
9.60		FAIR BREAK-0.15m													8.84	8.53				
		INTENSE FRACTURING													100	25	100	1.22	<0.001	0.04
11.03															9.75	9.75				
11.64		STRONG BREAK													100					
															10.97	26	100	1.52	0.005	0.01
12.95		D/S STRONG FRACTURING ALONG CORE AXIS													11.28					
															100	27	100	1.52	0.004	0.01
															12.80	12.80				
															100	28	100	1.52	0.004	0.01
15.24		MODERATE BREAK-5cm GOUGE													14.33	14.33				
															100	29	100	1.52	0.002	<0.01
16.52															16.15	15.85				
17.37		STRONG BREAK													100	30	100	2.13	0.005	0.01
															17.67	17.98				
															100	31	100	1.22	0.006	0.01
															19.20	19.20				
															100	32	100	1.22	0.002	<0.01
															20.42	20.42				
21.18		MODERATE BREAK-12cm GOUGE	21.18												100	33	100	1.52	0.005	<0.01
		VEIN ZONE	KAOLINITE FACIES - WEAK PHYLLIC -SILIC	N	N	N	N	PH	VF	<F	N	N	<F	N	21.95	21.95				
22.71			22.71												100	34	100	1.52	0.004	<0.01
			KAOLINITE FACIES	N	N	N	N	PA	N	N	N	N	<M	<F	23.47	23.47				
										PM			<L	N	100	R4535	100	1.22	0.005	<0.01
															24.99	24.69				
															100					
															26.52					
															100					
															28.04					
															100					
															29.57					
			29.87 - BASE SUPERGENE												100					
35° 30.78		AMPHIBOLITE	PROPYLITIC FACIES	PA	N	N	<F	VF	N	N	<F	N	<L	N	31.09					
															100					
			32.71												32.61					
															100					
			UP TO 3cm BLEACHED BANDS & VEINLETS												34.14					
															100					
															35.66					
															100					
			36.81												36.88					
															100					
															38.4					
															100					
39.47		QUARTZ FELDSPAR GNEISS HIGHLY FRACTURED	39.47												40.23					
			KAOLINITE FACIES - SUPERGENE	N	N	N	N	PM	N	N	N	N	<F	N	100					
41.61			41.61												41.76					
		AMPHIBOLITE	PROPYLITIC FACIES	PH	N	N	PF	VF	N	N	<M	N	<F	N	100					
															43.28	43.28				
															100	R4536	100	1.22	<0.001	0.01
			44.50												44.81	44.50				
			KAOLINITE FACIES	N	N	N	PF	PA	VF	PL	<F	N	<F	N	100	37	100	1.83	0.192	1.28
45.57		WEAK BREAK-70°x?	45.57				N	PH	PF	<F	PL	PL	<L	N	46.33	46.33				
46.32		VEIN	WEAK SILIC-PHYLLIC												100	38	100	1.52	0.007	0.07
			46.32												47.85	47.85				
			KAOLINITE FACIES	PL N	N	N	PF	PA	N	N V L	PM	N	<F L	N	100	39	100	0.91	<0.001	0.01
48.92		MAIN BREAK-0.46m													48.77					
		VEIN? - INTENSE SHEARED ROCK & PYRITE 70°x	49.38												49.38					
			KAOLINITE FACIES	N	N	N	N	PH	PL	PL	PF	PF	<F	N	100	40	100	1.98	0.009	0.08
50.65		FELDSPAR QUARTZ PORPHYRY	50.65												50.90	50.75				
			MONTMORILLONITE FACIES	N	N	N	PF	PM	N	N	PF	PL	<L	N	100	41	100	0.60	0.001	<0.01
51.63		STRONG BREAK-0.18m													51.82	51.36				
															100	42	100	1.07	0.001	0.09
52.43		WEAK BREAK - STRONG SHEARED													53.34	52.43				
																43	100	1.22	<0.001	0.03
53.80			53.80 - D/S GYPSUM VEINLETS							VF					100	53.64				
		SHEARED - WEAK														44	100	1.22	<0.001	0.02
54.72		VEIN? - SHEARED ROCK & PYRITE	54.72												54.86					
			KAOLINITE FACIES	N	N	N	N	PH	PL	PL	PL	PL	N	N	55.47	45	100	1.07	<0.001	0.01
55.62		WEAK BREAK	55.62												55.93					
			MONTMORILLONITE FACIES	PL	N	>M	PH	PL	N	N	PM	N	N	N	100	46	100	1.07	<0.001	0.03
		NUMEROUS SHEARS 0-25°x													57.0	47	100	0.91	<0.001	0.02
															100	57.91				
															58.22	48	100	1.52	<0.001	0.02
59.28															100					
			59.28												59.44	59.44				
			PROPYLITIC FACIES	PF PH	N	>F	PA PM	VF	N	N	PM	N	N	N	100	R4549	100	1.83	<0.001	0.02
61.26		END OF HOLE																		

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES 091894

HOLE No.	PROJECT	TARGET	STARTED : SEPT. 1/86
DDH86-29	**NANSEN**	FLEX ZONE	FINISHED : SEPT. 2/86
COORDINATES N: 19983.06 E: 17792.68	AZ: 045° EL: 1347.83	DIP-COLLAR: -50° ACID DIP TEST: -51°	T.D. 36.58m (120')
			LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS; QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS; QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

- P – PERVASIVE
- > – PERVASIVE > VEINLET
- < – VEINLET < PERVASIVE
- V – VEINLET
- E – ENVELOPES

AMOUNT

- N – NIL
- L – LOW TRACE
- F – FAIR
- M – MODERATE
- A – ABOVE AVERAGE
- H – HEAVY

SYMBOLS

- – VEIN
- – FAULT (BREAK)
- – FAULT GOUGE
- △ – BRECCIA
- – CRACKLE BRECCIA
- 75° ,--- – CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- 4 – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	ALTERATION FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag	
		TRICONE : CASING													0						
3.05		QUARTZ FELDSPAR CHLORITE GNEISS	PROPYLITIC FACIES	PA	N	N	PF	VF	N	N	N	N	PL	N	3.05						
8.99		WEAK BREAK - 5cm CLAY GOUGE																			
9.60		FAULT - 0.3m BRECCIA WITH QUARTZ FRAGMENTS																			
60°																10.67					
12.1		SIDERITE VEIN - 5cm	11.58 MONTMORILLONITE FACIES	PF	N	7M	PH	VF	N	N	PL	N	<L	N		R4517	100	0.81	0.002	0.02	
12.95		SHEARED														11.58					
13.62		BLEACHED BAND														18	100	1.37	0.001	0.02	
																12.95					
																R4519	100	1.22	0.001	0.02	
			14.17 PROPYLITIC FACIES	PM	N	N	PF	VF	N	N	PL	N	<F	N		14.17					
18.90		AMPHIBOLITE - 0.61m D/S NARROW BANDS AMPHIBOLITE													100						
			22.56													22.56					
23.10		STRONG BREAK - GOUGE & SHEARED ROCK														R4520	100	1.52	0.002	<0.01	
			24.60													24.08					
26.09		AMPHIBOLITE																			
			28.80 D/S INCREASED BLEACHING					<M								28.96					
			29.47 - SHARP CONTACT													R4521	100	0.91	0.004	0.02	
30.18		55° x VEIN	30.18 KAOLINITE FACIES	N	N	N										29.87					
31.03		70° x	PHYLLIC FACIES	N	N	N	N	VF	PA	<F	PL	PL	N	N		22	100	1.52	0.019	0.32	
			31.03 KAOLINITE FACIES	N	N	N	N	PH	N	VL	N	N	<L	N		31.39					
			32.30 PROPYLITIC FACIES	PA	N	N	PA	PM	N	N	PL	N	<L	N		R4523	100	1.22	0.003	0.09	
																32.61					
															34.13						
															35						
36.58		END OF HOLE																			

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES

091894

HOLE No.	PROJECT	TARGET	STARTED : SEPT. 2/86
DDH86-30	NANSEN	FLEX ZONE	FINISHED : SEPT. 3/86
COORDINATES N: 20026.26 E: 17835.88	AZ: 045' EL: 1357.85	DIP-COLLAR: -50° ACID DIP TEST: -51°	T.D. 68.58 m (225')
			LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS; QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS; QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

- P – PERVASIVE
- > – PERVASIVE > VEINLET
- < – VEINLET < PERVASIVE
- V – VEINLET
- E – ENVELOPES

AMOUNT

- N – NIL
- L – LOW TRACE
- F – FAIR
- M – MODERATE
- A – ABOVE AVERAGE
- H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- BRECCIA
- CRACKLE BRECCIA
- CONTACT, ANGLE TO CORE AXIS
- SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- ∠ – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag
			ALTERATION																	
2.13		TRICONE & CASING													2.13					
		AMPHIBOLITE	KAOLINITE FACIES (SUPERGENE)	N	N	N	N	PA	N	N	N	N	<F	VL	3.66					
10.36		BRECCIATED · 0.61m													5.18					
															6.40					
															7.62					
															8.99					
															10.36					
															10.67					
															11.89	R4571	100	1.52	0.002	0.09
			12.65 D/S INCREASED BLEACHING					PH		VL			<L		12.50					
13.84		WEAK BREAK													12.19	72	100	1.52	0.020	0.45
		VEIN													13.72					
		VEIN ZONE	SILIC FACIES	N	N	N	N	<F	N	PH	PF	PF	<F	N	13.84	T3	100	1.07	0.073	5.19
15.09		WEAK BREAK													14.78					
			KAOLINITE FACIES	N	N	N	N	PA	N	<F	PF	PF	<F	N	15.09	74	100	1.67	0.009	0.09
16.15		STRONG BREAK · 0.46m													16.15					
		VEIN													16.61					
			SILIC FACIES	N	N	N	N	VL	PF	PH	PF	PF	VL	N	16.76	T5	100	1.22	0.037	0.98
															17.68					
															18.28	T6	100	0.91	0.284	42.30
18.99															18.59					
			KAOLINITE FACIES	N	N	N	N	VA	PF	PF	<M	PF	<L	N	19.20	19207	100	0.61	0.450	7.81
															19.81	T8	100	0.91	0.126	2.92
21.63		MODERATE BREAK · 80°													20.11					
			MONT MORILLONITE FACIES	N	N	<F	PM	PM	N	VL	<F	N	<L	N	20.72	R4573	100	1.22	0.162	1.08
22.7		WEAK BREAK · 30°±													21.34					
			22.7 D/S SHEARS WITH WEAK QZ ENDLENTES, TRACES GL & SL												21.64	R4580 (PS065)	100	1.37	0.001 (0.002)	0.03 (0.05)
															22.70					
24.44		MYLONITE · 20°±													22.86	R4581 (PS066)	100	1.68	0.001 (0.001)	0.02 (0.02)
25.30		WEAK BREAK													24.38					
															24.38	R4582 (PS067)	100	1.52	<0.001 (0.001)	0.03 (0.02)
			PROPYLITIC FACIES	PA	N	VL	PL	VL	N	N	<F	N	VL	N	25.30					
26.87		WEAK BREAK													25.91					
27.08		VEIN · 8cm, WEAK QUARTZ & PYRITE													27.13					
															28.35					
			28.96 SHARP CONTACT MONTMORILLONITE FACIES	PL	N	>F	PF M	PF M	N	N	<L	N	<L	N	29.57	28.96 (R4583) (PS068)	95	0.91	<0.001 (0.001)	0.01 (0.01)
30.18		WEAK BREAK													30.18					
30.84		IRREGUAR CONTACT — VEIN	SILIC FACIES	N	N	N	N	PM	N	PM	PF	PF	<L	N	30.78	R4584 (PS069)	90	1.52	0.004 (0.003)	0.05 (0.04)
			MONT MORILLONITE FACIES	N	N	<F	PM	PF	N	VF	>F	N	<L	N	30.94	R4585 (PS070)	90	0.91	0.001 (0.002)	0.05 (0.04)
															32.09					
															32.31	R4586 (PS071)	90	1.52	0.002 (0.002)	0.03 (0.04)
33.83		WEAK BREAK — VEIN?													33.53					
34.90		WEAK BREAK													33.83	R4587 (PS072)	96	1.52	0.009 (0.008)	0.35 (0.32)
			33.83 SILIC FACIES - WEAK	N	N	N	N	PM	N	PF	<F	PF	<L	N	34.13					
			34.80												34.80					
															35.05	R4588 (PS073)	100	1.22	<0.001 (0.003)	0.05 (0.03)
															35.66					
															36.27	R4589 (PS074)	100	1.52	<0.001 (0.001)	0.01 (0.02)
															36.58					
															37.19	R4590 (PS078)	100	1.07	<0.001 (0.001)	0.01 (0.01)
39.47		VEIN · 6cm QUARTZ - WEAK SX													37.80					
40.39		MODERATE BREAK · 70°±													38.1	R4591 (PS075)	100	1.07	<0.001 (0.001)	0.01 (0.01)
		VEIN													38.86					
41.76		MAIN BREAK · 10cm GOUGE													38.62					
			38.92 SILIC FACIES - WEAK	N	N	N	N	VF	PF	PF M	PL	PF	VL	N	38.93					
			38.92 SILIC FACIES	N	N	N	N	VF	PF	PM	PL	PF	VL		41.15	R4592 (PS077)	100	1.83	0.012 (0.016)	0.17 (0.34)
			41.76 KAOLINITE FACIES	N	N	PL	PF	PM	N	VL	<F	N	VL	N	42.06					
															42.67	R4594 (PS078)	93	1.83	<0.001 (0.002)	0.01 (0.02)
			43.83 PROPYLITIC FACIES	PH	N	>L	PL	VL	N	N	<F	N	VL	N	44.20					
															44.20					
															45.72					
															47.24					
															48.77					
															50.60					
50.76		QUARTZ FELDSPAR GNEISS	50.75 KAOLINITE FACIES	N	N	PL	PF	>M	N	N	>M	N	>F	N	51.82					
51.82		WEAK BREAK													52.73					
		BRECCIA ZONE - WEAK BREAKS													53.34					
53.34															54.25					
															54.86					
															56.08					
56.24		WEAK BREAK — AMPHIBOLITE													57.30					
57.45		BRECCIA ZONE - 55°±													58.83					
58.37		QUARTZ FELDSPAR MUSCOVITE GNEISS	58.37					N	N	>A			>F		60.5					
															60.96					
															62.48					
64.01		D/S MUSCOVITE ABSENT													64.01					
															64.32					
															67.06					
68.58		END OF HOLE																		

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No. 091894

CHEVRON CANADA RESOURCES

HOLE No.	PROJECT	TARGET	STARTED : SEPT. 3/86
DDH86-31	NANSEN	FLEX ZONE	FINISHED : SEPT. 4/86
COORDINATES N: E:	AZ: 045° EL:	DIP-COLLAR: -50° ACID DIP TEST: -51°	T.D. 27.74m (91')
			LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS; QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS; QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

P – PERVASIVE
>– PERVASIVE> VEINLET
<– VEINLET< PERVASIVE
V – VEINLET
E – ENVELOPES

AMOUNT

N – NIL
L – LOW TRACE
F – FAIR
M – MODERATE
A – ABOVE AVERAGE
H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- △ – BRECCIA
- CRACKLE BRECCIA
- 75° CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- ∢ – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	FACIES	ALTERATION: CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag
0															0					
3.35		AMPHIBOLITE - 10-15% NARROW BANDS QUARTZ FELDSPAR GNEISS	KAOLINITE FACIES	PF ← N	N	N	N	PF — H	N	N	N	N	<F	<L ← TK	3.35 85 4.57 90 6.10	R4595 (P5079)	80	0.61	<0.001 (0.001)	<0.01 (<0.01)
7.31		STRONG BREAK-GOUGE & CRUSHED ROCK — MAIN BREAK VEIN ZONE	7.31 SILIC FACIES-WEAK	N	N	N	N	>M	PM — TK	PF — H	PL	PL	VL	N	6.70 6.85 7.01 95 7.92	R4596 (P5080)	93	1.22	0.002 (0.007)	0.05 (0.11)
7.92															100	R4597 (P5081)	100	1.52	0.024 (0.027)	0.28 (0.17)
8.69		WEAK BREAK													9.45					
9.14			9.14												100	R4598 (P5082)	100	1.52	0.036 (0.049)	0.17 (0.17)
10															10.97	R4599 (P5083)	95	0.61	0.001 (0.003)	0.05 (0.03)
30° 11.82		VEIN? - HIGHLY SHEARED QUARTZ FELDSPAR GNEISS MINOR <0.15m BANDS AMPHIBOLITE	11.82 PHYLLIC FACIES-WEAK	N	N	N	N	PA	PF	N	N	N	PF	N	95	R4600 (P5084)	95	0.91	<0.001 (0.002)	0.03 (0.02)
12.5			12.50 KAOLINITE FACIES	N	N	N	N	PH	N	VF N	N	N	<M	N	12.50 95 14.02	R4701 (P5085)	95	1.52	<0.001 (0.002)	0.03 (0.03)
50° 15.84		STRONG BREAK - 0.15m CLAY VEIN? - SHEARED & BRECCIATED	15.84 SILIC FACIES-WEAK	N	N	N	N	PH	N	>L	N	N	<L	N	95 15.24 100 15.54	R4702 (P5086)	96	1.83	<0.001 (0.001)	0.01 (<0.01)
17.71		MAIN BREAK - 0.27m CLAY AMPHIBOLITE - MINOR BANDS QUARTZ FELDSPAR GNEISS	17.71 KAOLINITE FACIES	PL	N	N	N	PA	N	N	N	N	<F	N	15.85 100 17.07	R4703 (P5087)	100	1.22	0.004 (0.009)	0.13 (0.11)
20.18		D/S STOCKWORK FRACTURING													100 18.59 95 18.90 95 20.12	R4704 (P5088)	100	1.22	0.009 (0.015)	0.16 (0.16)
21.18		STRONG BREAK - 30-50° x - 0.46m	21.64 SILIC FACIES	N	N	N	N	PF	N	PH	N	N	<F	N	18.29 18.90 95 20.12 100 21.03	R4705 (P5089)	95	1.83	0.004 (0.009)	0.03 0.04
21.95		VEIN? - INTENSE BRECCIA	21.95 KAOLINITE FACIES	N	N	N	PF	PA	N	N	PL	N	<M	VF	21.64 100 23.16	R4706 (P5090)	100	0.91	0.001 (0.002)	0.03 (0.01)
22.86		WEAK BREAK													100 24.69 100 26.21 100 26.82 100	R4707 (P5091)	100	0.91	0.004 (0.006)	0.05 (0.04)
																R4708 (P5092)	100	1.22	0.008 (0.005)	0.07 (0.04)
																R4709 (P5093)	100	1.52	<0.001 (0.001)	0.01 (0.02)
27.74		END OF HOLE																		

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES 091894

HOLE No.	PROJECT	TARGET	STARTED : SEPT. 4/86
DDH86-32	**NANSEN**	FLEX ZONE	FINISHED : SEPT. 5/86
COORDINATES N: 20003.39 E: 17813.57	AZ: 045° EL: 1353.07	DIP-COLLAR: -50° ACID DIP TEST: -50°	T.D. 73.76m (242') LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS
QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS
QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

P – PERVASIVE
>– PERVASIVE> VEINLET
<– VEINLET< PERVASIVE
V – VEINLET
E – ENVELOPES

AMOUNT

N – NIL
L – LOW TRACE
F – FAIR
M – MODERATE
A – ABOVE AVERAGE
H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- △ – BRECCIA
- ∠ – CRACKLE BRECCIA
- 75°,--- CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- 4 – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	ALTERATION FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag	% RECOVERY FOR SAMPLE INTERVAL
0		TRICONE													0					
2.13		OVERBURDEN QUARTZ FELDSPAR PORPHYRY													2.13					
3.05		BEDROCK CONTACT													60 3.05					
		AMPHIBOLITE	KAOLINITE FACIES (SUPERGENE)	PL	N	N	PF	PA	N	N	PL	N	<L	N	80 3.96					
4.57		BRECCIA-WEAK		N				PH							5.49	R4710 (P23350)	0.81	0.003 (0.019)	0.03 (0.04)	90
5.79		WEAK BREAK													90 6.40					
6.55		VEIN	SILIC. FACIES-WEAK	N	N	N	N	PH	N	PF	PL	N	>F	N	100 7.01	R4711 (P23352)	1.83	0.104 (0.144)	0.38 (0.38)	85
8.05			KAOLINITE FACIES	N	N	N	N	PH PF	N	PF PR	N	PF			80 7.52					
			PROPYLITIC FACIES	PF	N	N	PL	VL	N	N	>L	N	<L	N	8.23 95 8.69	R4712 (P23353)	1.22	0.004 (0.003)	0.03 (0.02)	95
															9.45 90					
															10.97 100					
															11.58 100					
12.5		D/S INCREASED FRACTURING	12.5												12.50 95					
			KAOLINITE FACIES-SUPERGENE	PF	N	N	PL	PA	N	N	PL	N	<F	N	12.55 95					
															14.93 100					
18.2															18.93 100					
															20.73 95					
			21.34 PROPYLITIC FACIES	PM	N	PL	PL	VL	N	N	<L	N	<L	N	21.64 100					
		BANDS UP TO 0.60m OF QUARTZ FELDSPAR GNEISS													22.25 95					
															24.69					
26.37																				
32.31		WEAK BREAK		PF											100					
37.19		D/S 0.6m BANDS OF QUARTZ FELDSPAR GNEISS BECOME COMMON																		
															42.67 95	42.97 R4715 (P23354)	0.91	0.001 (0.003)	0.01 (0.01)	95
44.13		D/S QUARTZ FELDSPAR GNEISS	43.78 KAOLINITE FACIES-TRACES SL	N	N	VF	PL	PA	N	VL	KF	PL	PL	N	43.89 R4716 (P23355)	0.76	0.001 (0.002)	0.01 (0.01)	95	
44.81		WEAK BREAK	44.81												44.50 95	R4717 (P23356)	1.07	0.001 (0.002)	0.05 (0.03)	95
45.84		VEIN-WEAK	KAOLINITE-WEAK SILIC FACIES	N	N	N	N	PH	PL	PF	>F	PL	<L	N	45.72 46.02	R4716 (P23357)	1.37	0.007 (0.017)	0.13 (0.10)	95
46.33		BRECCIA ZONE - <2mm-6cm CLASTS	46.33 KAOLINITE FACIES	N	N	N	N	PA	N	N	<M	N	<L	N	47.05 100	R4717 (P23358)	2.13	0.002 (0.003)	0.13 (0.09)	100
48.16		MODERATE BREAK													48.22 90	R4718 (P23359)	0.91	0.002 (0.003)	0.01 (0.01)	98
50.44															50.14 95	R4719 (P23360)	0.76	0.006 (0.008)	0.17 (0.17)	90
51.20		MAIN BREAK-60-70% SHEARED/CRUSHED QUARTZ FELDSPAR MUSCOVITE GNEISS						<M			PL		VL	N	50.44 51.20 51.51	R4720 (P23361)	0.30	0.004 (0.005)	0.02 (0.01)	80
52.43								PA							51.97 90					
		STRONG FRACTURED-CRACKLE-BRECCIA													53.19 53.64 53.93 90					
55.22		BRECCIA - 0.15m													54.86 95					
56.39															56.39 95					
57.01		STRONG BREAK													57.60 57.91	R4721 (P23362)	1.98	0.006 (0.004)	0.38 (0.23)	95
58.5		BRECCIA ZONE													59.55 100	R4722 (P23363)	1.52	0.003 (0.004)	0.11 (0.10)	100
60.35		SHEAR ZONE - 0.46m 0-10° BRECCIA - <3cm CLASTS													61.11	R4723 (P23364)	1.68	0.007 (0.008)	0.23 (0.23)	100
62.03		STRONG BREAK - 0.15m GOUGE													62.79 90	R4724 (P23365)	2.13	<0.001 (0.001)	0.01 (0.01)	81
62.79		HIGHLY FRACTURED													64.31 95					
65.23		STRONG BRECCIA BRECCIA ZONE													64.92 65.84	R4725 (P23366)	2.13	0.005 (0.004)	0.09 (0.11)	98
66.08		STRONG BREAK - 0.15m CLAY-50%													100 67.06					
66.45		- MAIN BREAK													67.36	R4726 (P23367)	2.13	0.001 (<0.001)	0.01 (0.01)	89
67.06		BRECCIA - 1mm - 2cm CLASTS 45-60%													100 68.88					
68.88								VL			PF		N	N	90 70.41					
															100 71.02					
															85 71.93					
															95 73.15	R4727		<0.001	0.01	
73.46		VEIN - 0.15m													90 73.70	(P23368)	0.61	(<0.001)	(0.04)	90
73.76		END OF HOLE																		

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES 091894

HOLE No.	PROJECT	TARGET	STARTED : SEPT. 5/86
DDH86-33	**NANSEN**	FLEX ZONE	FINISHED : SEPT. 6/86
COORDINATES N: 19983.84 E: 17866.60	AZ: 045° EL: 1352.74	DIP-COLLAR: -50° ACID DIP TEST: -50°	T.D. 51.82m (170') LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS
  QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS
  QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

P – PERVASIVE
> – PERVASIVE > VEINLET
< – VEINLET < PERVASIVE
V – VEINLET
E – ENVELOPES

AMOUNT

N – NIL
L – LOW TRACE
F – FAIR
M – MODERATE
A – ABOVE AVERAGE
H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- △ – BRECCIA
- ⌿ – CRACKLE BRECCIA
- 75°⌒ – CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- ∠ – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	ALTERATION / FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag	% RECOVERY FOR SAMPLE INTERVAL
0		CASING - NO CORE RECOVERY													0					
3.05		QUARTZ FELDSPAR PORPHYRY FLOAT													3.05					
3.66		BEDROCK CONTACT AMPHIBOLITE	PROPYLITIC FACIES	<F	N	N	<L	VF	N	N	N	N	VL	N	3.66 70					
5.94		WEAK BREAK - 20° x													5.18 85 5.49 5.94 80 90 6.40 6.71 95 60 7.01 95					
															8.53 95					
10.06		QUARTZ FELDSPAR MUSCOVITE BIOTITE GNEISS		PL				<F					VF		10.06 90 10.67 95					
															12.19 100					
															13.72 95					
														VF	14.94 90 16.0					
														VM	95					
19.05			19.05 KAOLINITE FACIES	N	N	N	N	<H	N	N	N	N	VL	VH	19.81 90	19.81 R4728 (P23369)	0.81	<0.001 (<0.001)	0.03 (0.01)	90
21.34		MAIN BREAK - GOUGE - 70° x												VF	20.13 85 21.64	R4729 (P23370)	1.22	0.009 (0.009)	0.07 (0.07)	98
22.04		BRECCIA - 1-3 cm CLASTS												N	21.95 100	R4730 (P23371)	1.22	0.003 (0.004)	0.08 (0.05)	100
22.86															23.16 23.47	R4731 (P23372)	1.22	<0.001 (0.001)	0.03 (0.03)	93
24.38															24.38 90					
		FAIR - MODERATE FRACTURING												VH	26.67 95					
															27.43 90					
29.26		D/S FRACTURING DECREASING												L	28.96 95					
															30.18 80 30.7					
															86 32.16					
32.10		BRECCIA - <1 cm CLASTS - 55° x													90					
33.07		STRONG BREAK - GOUGE & CRUSHED ROCK - 0.3m AMPHIBOLITE	33.07 PROPYLITIC FACIES	PF	N	<F	PF	VL	N	N	PL	N	<L	N	33.68 85 34.44					
38.86		WEAK BREAK? - 20° x	38.86 MONTMORILLONITE FACIES	PL	N	>F	PM	<F	N	N	PL	N	<F	N	95					
40.23		WEAK BREAK? HIGHLY BROKEN CORE																		
42.98		WEAK BREAK													43.43 85					
43.59		WEAK BREAK - 40° x													44.20					
44.29		WEAK BREAK - 30° x	44.29 PROPYLITIC FACIES	PF	N	VF	<F	VL	N	N	<F	N	VL	N	95					
45.36		BANDS - UP TO 0.6m WITH STRONG FRACTURING													45.72 95 46.94 80 47.24					
48.46															95					
50.14		WEAK BREAK?				VL	VL	PL			N		N		50.14 90					
51.82		END OF HOLE																		

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES 091894

HOLE No.	PROJECT	TARGET	STARTED : SEPT. 6/86
DDH86-34	NANSEN	FLEX ZONE	FINISHED : SEPT. 8/86
COORDINATES N: 20039.81 E: 17779.15	AZ: 045° EL: 1359.59	DIP-COLLAR: -50° ACID DIP TEST: -48°	T.D. 71.93m (236')
			LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS; QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS; QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

P – PERVASIVE
>– PERVASIVE> VEINLET
<– VEINLET< PERVASIVE
V – VEINLET
E – ENVELOPES

AMOUNT

N – NIL
L – LOW TRACE
F – FAIR
M – MODERATE
A – ABOVE AVERAGE
H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- BRECCIA
- CRACKLE BRECCIA
- 75°∠ ---- CONTACT, ANGLE TO CORE AXIS
- SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- ∠ – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	ALTERATION FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag
2.13		CASING - NO CORE RECOVERY																		
		QUARTZ FELDSPAR CHLORITE GNEISS	KAOLINITE FACIES -	PL	N	N	N	<M	H	N	N	N	<L	N	2.13					
															85					
															2.35					
															80					
															4.11					
															85					
															5.18					
															80					
6.25		VEIN - 0.24m	6.25 SILIC FACIES					<H						VF	5.79	5.84				
6.49			6.49 KAOLINITE FACIES	N	N	N	N	PF	H	PH	<F	PL	<F	N	85	R4732	85	1.22	0.001	<0.01
7.16		WEAK BREAK - 4cm CRUSHED		N	N	N	N	<A	N	N	N	N	<F	VF		7.16				
			7.62 PROPYLITIC FACIES	PL	N	N	N	VF	N	N	PL	N	<L	N	7.47					
				PF											95					
12.80			12.80 KAOLINITE FACIES (SUPERGENE)																	
13.5		WEAK BREAK - 4cm CRUSHED - 45°∠		N	N	N	N	<A	N	VF	N	N	<F	VF						
18.05		WEAK BREAK													14.94					
															15.54					
15.84			15.84 PROPYLITIC FACIES	<M	N	N	N	VL	N	N	<F	N	<L	N	95					
															16.76					
															97					
															18.25					
															95					
															19.94					
															100 20.42					
															90					
															21.64					
															95					
															23.16					
															100					
															23.77					
															95					
															24.63					
															25.05					
															95					
28.80			28.80 KAOLINITE FACIES													28.65				
29.78		MODERATE BREAK - 45°∠ 0.24m BRECCIA & GOUGE		N	N	N	N	<H	N	N	PL	N	<F	N		R4733	95	2.13	<0.001	0.04
																30.78				
															80					
																32.31				
				CL	SY	CA	MN	KA	QS	QZ	PY	SY	LI	MN		33.83				
																R4734	95	0.91	<0.001	0.02
34.85		WEAK BREAK - 3cm CRUSHED - 45°∠ VEIN ZONE	34.99 SILIC FACIES - FAIR GL±SL	N	N	N	N	PF	N	>H	<F	PH	>F	N	95	34.75 35	95	1.68	0.190	10.40
36.27		WEAK BREAK - 40°∠	36.27 KAOLINITE FACIES TRACES FRACTURE SL	N	N	N	N	PA	N	VF	<M	N	VL	N		36.42 36	95	1.98	0.022	0.17
																38.55				
38.80		D/S INCREASED FRACTURING													90	38.40 37	90	1.52	0.008	0.15
39.93		MODERATE BREAK - GOUGE														39.53 38	90	1.22	0.011	0.02
41.27		MAIN BREAK - 0.34m GOUGE	41.27													41.15				
		VEIN ZONE	KAOLINITE FACIES - WEAK PHYLLIC - SILIC	N	N	N	N	PF	PH	? VL	<F	PL	N	N	41.55	39	95	2.13	0.014	0.21
42.73		WEAK BREAK	MINOR GL±SL WITH QUARTZ					PA	N	VF						43.28				
43.34		WEAK BREAK								PR	PL	PF				40	95	0.91	0.029	0.25
44.87		CONTACT 65°∠ AMPHIBOLITE	49.87 KAOLINITE FACIES	N	N	N	N	PH	N	N	<M	N	N	N		44.20 41	95	0.91	0.011	1.11
											VL					45.11				
			46.17					PM			<F					42.	95	1.22	<0.001	0.07
47.85		QUARTZ FELDSPAR GNEISS	47.85					PH		VF	<M					44.33 43	95	1.22	<0.001	0.01
																47.55				
			49.3 - 10cm DARK QUARTZ - WEAK SIDERITE VEINLETS	CL	CR	CA	MN	KA	QS	QZ	PY	SY	LI	MN		44	95	2.13	<0.001	0.01
50.84		AMPHIBOLITE														49.68				
52.12		D/S QUARTZ FELDSPAR GNEISS														45	55	2.44	0.001	0.03
52.42		3cm SIDERITE VEIN	52.12												95	52.12				
53.34			KAOLINITE FACIES - NARROW SILIC BANDS GL±SL COMMON WITH QUARTZ	N	N	N	N	PA	N	<F	>F	PL	N	N		46	95	1.22	0.004	0.05
			53.34					PH	N	N	>F	N				53.34 47	95	1.22	<0.001	<0.01
54.86			54.86					PH		PM	<F					54.56 48	85	1.22	0.018	0.18
55.41		VEIN - 25 - 35°∠	55.41					PA		N						55.78				
56.39		SHEARED - 0.3m	56.39 - - -							VF	VF	VF				49	95	1.22	0.008	0.08
		VEIN ZONE	D/S 42mm CALCITE - SIDERITE VEINLETS BECOME COMMON			VF										57.0				
																R4750	95	1.22	<0.001	0.03
58.32			58.52 - - -													58.12				
		SHEARED, WEAK BRECCIA				∠										P16451	95	1.83	0.091	3.03
59.53		MAIN BREAK - 0.30m	56.39 - 5cm QUARTZ VEIN - PYRITIC													60.05				
		CRACKLE BRECCIA													60.96	452	95	2.44	0.106	0.18
61.87		TRANSITIONAL - VEIN	61.87					PH	N	<M	<M	<F				62.79				
63.22		70°∠	63.22 KAOLINITE FACIES	N	N	VF	N	PA	N	VM	<F	N	N	N		453 63.79	80	0.91	0.060	0.62
			QUARTZ - CALCITE PYRITE VEINLETS COMMON, DECREASING D/S												64.62	64.31	30	0.61	0.005	0.07
																P16455	95	1.52	<0.001	0.04
			66.45 PROPYLITIC FACIES	PH	N	VL	PL	VL	N	N	>F	N	N	N		65.84				
67.91		AMPHIBOLITE - MINOR <0.3m BANDS QUARTZ FELDSPAR CHLORITE GNEISS													95					
71.93		END OF HOLE																		

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES 091894

HOLE No.	PROJECT	TARGET	STARTED : SEPT. 8/86
DDH86-35	**NANSEN**	FLEX ZONE	FINISHED :
COORDINATES N: 20151.00 E: 17792.27	AZ: 045° EL: 1392.05	DIP-COLLAR: -50° ACID DIP TEST: -51°	T.D. 46.02 m (151')
			LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS; QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS; QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

P – PERVASIVE
> – PERVASIVE > VEINLET
< – VEINLET < PERVASIVE
V – VEINLET
E – ENVELOPES

AMOUNT

N – NIL
L – LOW TRACE
F – FAIR
M – MODERATE
A – ABOVE AVERAGE
H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- △ – BRECCIA
- ⌿ – CRACKLE BRECCIA
- 75° ,--- – CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- ∡ – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	ALTERATION FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag
		CASING-DRILL PAD MATERIAL													1.22 – 60 – 2.44 TO 3.05 – 80					
2.74		BEDROCK CONTACT QUARTZ FELDSPAR GNEISS	KAOLINITE FACIES	N	N	N	N	<M	N	N	N	N	VL	VF H VL	4.37 – 85 – 5.18 – 80 – 5.79	4.57 – P16456 – 5.49	83	0.91	<0.001	<0.01
5.79		FINE BRECCIA - OCC. NARROW GOUGY BANDS	-6.49 - 0.15m WEAK QUARTZ					PH		VL	PL			N		457 – 6.71	88	1.22	0.001	<0.01
7.92		STRONG BREAK - 0.15m GOUGE														458 – 8.23	90	1.52	0.004	0.09
8.84		BREAK - WITH GOUGE - 0°x													90					
		FINE BRECCIA														459 – 10.36	91	2.13	<0.001	<0.01
12.34		FINE-COARSE BRECCIA													9.75	460 – 12.04	95	1.68	<0.001	<0.01
15.0		STRONG BREAK - 0.24m	-15.0												95	461 – 13.56	95	1.52	<0.001	0.01
16.0		VEIN	SILIC FACIES - MINOR GL±SL	N	N	N	N	PM	N	>M	>F	>F	N	N	13.72	462 – 14.94	95	1.37	0.001	0.04
17.53																463 – 15.85	95	0.91	0.007	0.23
18.22		WEAK BREAK	-18.22													464 – 17.07	95	1.22	0.390	16.90
		FINE BRECCIA - (<1mm) WITH CLASTS UP TO 3cm.	KAOLINITE FACIES	N	N	N	N	PH	N	N	PL	N	<L	N		465 – 18.44	95	1.37	0.146	3.32
20.12		D/S COARSER CLASTS MORE COMMON	-20.12- - TRACES SCORDITE												95	466 – 20.12	95	1.68	0.005	0.13
23.16			-23.16- -													467 – 21.64	95	1.52	0.017	0.26
24.08		CRACKLE BRECCIA														468 – 23.16	95	1.52	0.018	0.15
24.84		MAIN BREAK - GOUGE & BRECCIA														469 – 24.54	95	1.37	0.003	0.09
25.21															26.06	470 – 26.21	94	1.68	0.006	0.16
25.91		70°x?	-25.91					<M		VL			<F			471 – 27.43	90	1.22	0.011	0.45
27.07		STRONG BREAK - GOUGE & BRECCIA													90	P16472 – 28.96	90	1.52	0.007	0.23
															29.26					
															95					
			-32.82												32.61					
								<A		<F			<M		90					
															35.05					
36.27		D/S - NARROW BANDS OF FINE BRECCIA													95					
															36.27 – 30 – 36.58 – 70 – 37.49	37.49				
39.41		FINE BRECCIA - (<1cm CLASTS)													80	P16473	80	1.52	0.002	0.09
40.23		MAIN BREAK - GOUGE & BRECCIA													39.01 – 95 – 40.08	39.01 – 474 – 40.39	95	1.37	0.002	0.07
41.0		FINE BRECCIA (<2cm) GOUGE AT BOTTOM														475 – 42.21	95	1.83	0.001	0.04
42.06		CRACKLE BRECCIA													95	476 – 43.43	94	1.22	0.001	0.07
43.22		STRONG BREAK - 0.39m													43.28	P16477 – 44.50	90	1.07	0.002	0.06
			-45.26 PROPYLITIC	PF	N	N	PL	VL	N	N	<F	N	<L	N	90					
46.02		END OF HOLE																		

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sample No.

CHEVRON CANADA RESOURCES 091894

HOLE No.	PROJECT	TARGET	STARTED : SEPT. 9/86
DDH86-36	**NANSEN**	FLEX ZONE	FINISHED : SEPT. 10/86
COORDINATES N: 20132.01 E: 17772.27	AZ: 049° EL: 1388.49	DIP-COLLAR: -50° ACID DIP TEST: -50°	T.D. 35.05 m (115') LOGGED BY: M.P.P.

ROCK TYPES

- OVERBURDEN
- FELDSPAR PORPHYRY
- QUARTZ-FELDSPAR PORPHYRY
- MT. NANSEN GROUP VOLCANIC FLOWS PYROCLASTICS & FEEDER DYKES
- GRANODIORITE INCLUDES NARROW APLITE & PEGMATITE DYKES
- QUARTZ FELDSPAR CHLORITE AND BIOTITE GNEISS
  QUARTZ FELDSPAR MUSCOVITE AND BIOTITE GNEISS
  QUARTZ FELDSPAR GNEISS
- AMPHIBOLITE

MODE

P – PERVASIVE
>– PERVASIVE> VEINLET
<– VEINLET< PERVASIVE
V – VEINLET
E – ENVELOPES

AMOUNT

N – NIL
L – LOW TRACE
F – FAIR
M – MODERATE
A – ABOVE AVERAGE
H – HEAVY

SYMBOLS

- VEIN
- FAULT (BREAK)
- FAULT GOUGE
- △ – BRECCIA
- CRACKLE BRECCIA
- 75° ,--- CONTACT, ANGLE TO CORE AXIS
- ≈ – SHEAR
- QV – QUARTZ VEINLET
- QC – CHALCEDONY
- SL – SPHALERITE
- GL – GALENA
- AS – ARSENOPYRITE
- ∡ – ANGLE TO CORE AXIS
- D/S – DOWN SECTION

DEPTH (m)	VISUAL LOG	LITHOLOGY	ALTERATION FACIES	CHLORITE	EPIDOTE	CALCITE	MONTMORILLITE	KAOLINITE	QTZ-SERICITE	QTZ-VEINS	PYRITE	VERY FINE SULPHIDES AND SULFO-SALTS	LIMONITE	MANGANESE OXIDES	% RECOVERY BETWEEN BLOCKS	SAMPLE No. & INTERVAL	% RECOVERY FOR SAMPLE INTERVAL	SAMPLE WIDTH (m)	oz/t Au	oz/t Ag
		CASING - NO CORE RECOVERY													0					
1.52		AMPHIBOLITE	PROPYLITIC FACIES	PF	N	N	PL	<F	N	N	PL	N	<L	N	1.52 80 1.83 90					
2.74			KAOLINITE FACIES																	
3.51		QUARTZ FELDSPAR GNEISS		N	N	N	N	>H	N	N	N	N	<F	VL	3.05 90	3.05 P16478	90	1.22	0.003	0.05
4.11		3cm GOUGE FELDSPAR PORPHYRY													4.27 5.33 70	479	70	2.13	0.004	0.07
5.94		CONTACT LOST																		
6.4		STRONG BREAK - 0.24m GOUGE & BRECCIA HIGHLY FRACTURED													6.4	6.4 480	95	1.22	0.001	0.02
7.68		STRONG BREAK - GOUGE														7.62 481	95	1.83	0.003	0.03
8.53		BRECCIA 1-3cm CLASTS IN GOUGE														9.45				
9.69		STRONG BREAK: 0.24m GOUGE & BRECCIA VEIN ZONE	9.69 PHYLLIC, FACIES	N	N	N	N	VF	PH	PF	PL	N	<F	N	95	482	95	1.52	0.007	0.07
10.97		GOUGE WITH <5% VEIN QUARTZ CLASTS	10.97					PH		VF		PL	PF			10.97 483	95	1.22	0.324	5.71
12.34		AMPHIBOLITE	12.34 KAOLINITE FACIES	N→PL	N	N	N	PH	N	N	N	N	<L	N		12.19 484	95	1.68	0.006	0.18
14.39		BRECCIA - FINE													13.72 90	13.87 485	90	1.68	0.002	0.05
16.0		QUARTZ FELDSPAR CHLORITE GNEISS	16.0 PROPYLITIC FACIES	PF	N	N	PL	<F	N	N	<L	N	<F	N	15.39 95	15.54 P16486	95	0.76	0.002	0.06
19.51		AMPHIBOLITE													16.31 17.98 90 18.59 95					
20.57		QUARTZ FELDSPAR CHLORITE GNEISS																		
21.33		WEAK BREAK													21.34 80 22.86					
27.58		WEAK BREAK - 3cm GOUGE													90					
28.5		AMPHIBOLITE													28.04 85 29.11					
31.39		QUARTZ FELDSPAR CHLORITE GNEISS													90 32.31 85 33.83					
35.05		END OF HOLE													80					