MAP No.

95 D 6

ASSESSMENT REPORT [X]
PROSPECTUS [ ]
CONFIDENTIAL [X]
OPEN FILE [ ]

DOCUMENT NO.: 091944
MINING DISTRICT: WATSON LAKE
TYPE OF WORK: DRILL LOGS

REPORT FILED UNDER: Novamin Resources Inc.

DATE PERFORMED: Feb. 21 to March 21/87 DATE FILED: April 22, 1987

LOCATION LAT. 60°22'N
LOCATION LONG. 127°25'W

AREA: COAL RIVER

CLAIM NAME & NO.

JEAN 1-4 Y72731-34
JEAN 5-10 Y72961-66
JEAN 11-21 Y74418-28
WET 1-32 Y83309-32
SOV 1-6 YA28600-605
JOE 1 Fraction YA45269
JOE 2 Fraction YA45270
MEL 11-16 Y22230-35

VALUE $ 236,000.00

WORK DONE BY: D.C. Miller

WORK DONE FOR: Novamin Resources Inc.

DATE TO GOOD STANDING

REMARKS: #2 MEL-HOSER

091944
#2 MEL-HOSER
Elizabeth Assessment

Indian and Northern Affairs Canada
Affaires indiennes et du Nord Canada

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
APR 22 1987
WHITEHORSE
YUKON TERRITORY

Your file Votre référence

Our file Notre référence
340-13-3

15 April, 1987

RECEIVED
APR 24 1987
REGIONAL GEOLOGY OFFICE

DIRECTOR GENERAL, YUKON REGION

ATTENTION: REGIONAL MANAGER MINERAL RIGHTS

RESTRICTED

Enclosed are Diamond Drill Logs etc., submitted by D. C. Miller Geological Services for assessment on the JEAN 1-21, MEL 11-16, WET 1-16, 25-32, JOE 1-2Frs., SOV 1-6 (recorder owner-Novamin Resources Inc.) mineral claims located on 95-D-6.

Drilling was as follows.

HOLE #87-1	JEAN 1	133.2 m
HOLE #87-2	JEAN 19	38.71m
HOLE #87-3	JEAN 19	66.75m
HOLE #87-4	JEAN 4	515.72m
HOLE #87-5	JEAN 4	399.59m
HOLE #87-6	JEAN 4	448.06m
HOLE #87-7	JEAN 1	409.96m
	TOTAL	2,011.99 m

Assessment credit requested is $236,000.00. The drill core is stored on the property and in the H. S. Bostock Core Library in Whitehorse.

Yours truly,

Yolanda T. Burkhard
A/Mining Recorder
Watson Lake Mining District
P. O. Box 269
Watson Lake, Yukon
YOA 1CO

cc: Regional Manager, Geological Services
encl.(s)

NJM

Canada

D.C. Miller Geological Services
769 Fraser Street
Kamloops, B.C.
V2C 3H1
1987-04-10

Mining Recorder
P.O. Box 269
Watson Lake, Yukon
Y0A 1C0

Dear Sir or Madam:

RE: DIAMOND DRILLING ASSESSMENT WORK FILED ON THE MEL, JEAN, WET, SOV, ETC. CLAIMS, CLAIM MAP 95-D-6, AT YOUR OFFICE ON MARCH 25, 1987.

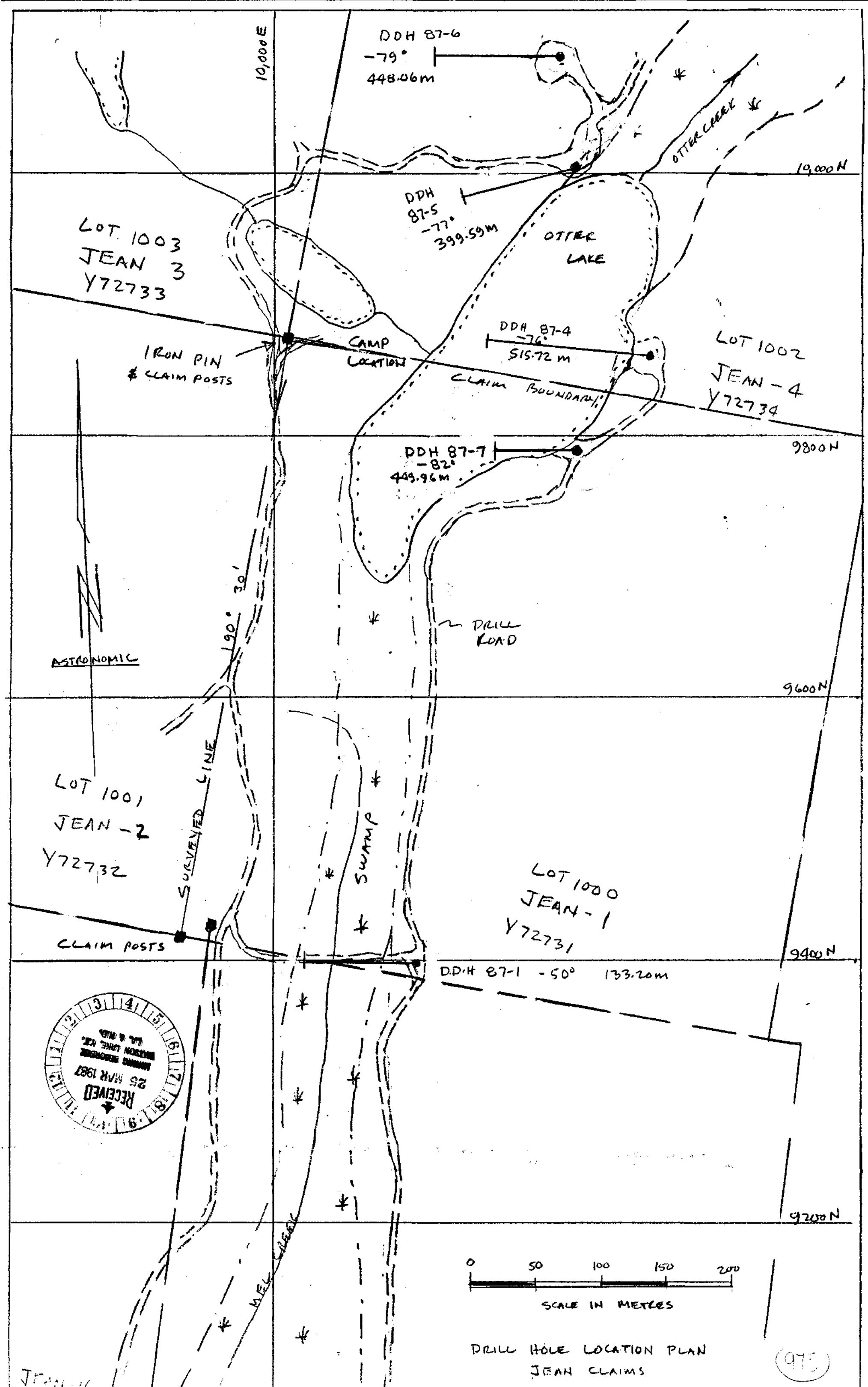
Enclosed herewith are diamond drill logs in duplicate, complete with assays which cover this work. The assays were done by Bondar-Clegg and Co. Ltd., Vancouver (Assay Reports 427-1130, 427,1040, 427-1278 and 427-1542 dated March - April, 1987).

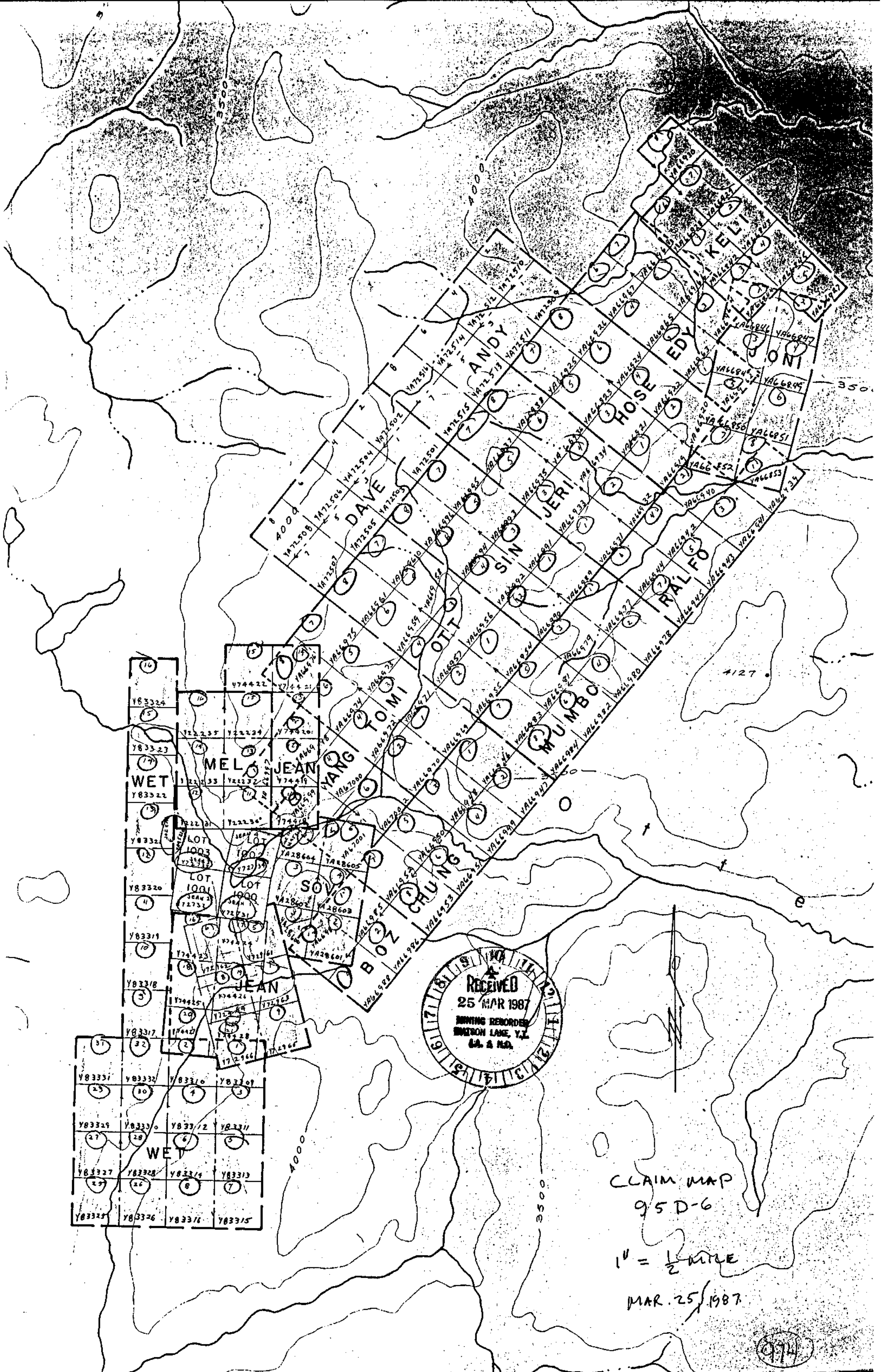
Previously a plan showing drill hole locations was submitted with the assessment filing.

All drill core is stored on the property on the Jean 4 claim (camp location) except the last 14 boxes of hole 87-5 which were taken to the H.S. Bostock Core Library in Whitehorse.

Yours very truly,

D.C. Miller,
P. Eng.

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LOT 1003
LOT 1002
LOT 1001
LOT 1000
SOUTH
BOZ
CHUNG
RECEIVED
25 MAR 1987
MINING RECORDER
WATSON LAKE, Y.T.
CLAIM MAP
95D-6
1" = ½ MILE
MAR. 25/1987
#127
#74

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-1

PROPERTY: MEL	NTS 95 D-6, YUKON	AZIMUTH: GRID WEST (273°)	DATE STARTED: FEB. 21, 1987	CORRECTED DIP TESTS			
PROJECT: 6250	SECTION 94N	DIP: -50°	DATE COMPLETED: FEB. 22, 1987	126M	46.2°	AZ=	279°
CLAIM NO.: JEAN - 1	CO-ORDINATES: 9399.1 N	LENGTH: 133.20 M	DRILLED BY: D.J. DRILLING LTD				
GRID NO.:	10107.1 E	COLLAR ELEV.: 905.4	LOGGED BY: D. C. MILLER				

TESTS. ~~LOCATION SKETCH OF HOLE~~ (SPERRY-SUN & SINGLE SHOT)

METRES FROM	METRES TO	SECTION	BQ CORE DESCRIPTION
			OBJECTIVES:- TEST WEAK GRAVITY - IP ANOMALIES SOUTH OF MAIN ZONE.
0	42.67		casing, no core; overburden mostly silty till with few large boulders.
42.67	78.00		WAVY BANDED LIMESTONE: Light to dark grey; comprises alternating light and dark grey bands ranging from a few mm to over 1 cm in width; banding - 50° @ 45.60, 35° @ 49.40, 15° @ 55.0, 20° @ 58.5; generally good core.
			(51.40 - 51.50) - Broken with some clay.
			(53.04 - 53.60) - Minor light brown clay filling low angle 15° open fracture.
			(55.00 - 55.50) - Bedding plane fault @ 15° filled with thin (1mm) brown clay.
			(42.67 - 44.81) - core recovery - 90%.
			(44.81 - 50.90) - " " - 95%.
			(50.90 - 55.17) " " - 40%.
			DRILLERS REPORT CORE LOSS AT 53.04 m
			(55.17 - 78.00) - 99% core recovery.
			(42.98 - 58.52 - Average about 1 fracture per 15cm, mainly tight and parallel to banding.
			(58.52 - 72.75) - Average about 1 fracture per 30cm, mainly tight and parallel to banding.
			Banding: 25° @ 60.0, 20° @ 69.0, 5° @ 72.0 36° @ 74.0, 25° @ 79.0,

SAMPLE NO.	FROM	TO	LENGTH

ASSAYS

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
78.00	88.40		CALCAREOUS SHALE Similar to preceding but becomes more finely laminated with alternating light and dark grey laminations; fissile core with many breaks along lamination planes, increasing towards 88.0; laminations - 53° @ 80, 46° @ 83, 34° @ 84, 50° @ 86; approximately 90% core recovery. (87.70 - 88.09) white-grey quartz-calcite vein 88.40 - possible fault, broken core.					
88.40	100.70		WAVY BANDED LIMESTONE Alternating light and dark grey, wavy boudinaged bands, variable folded banding ranging from 0 - 90°, commonly about 20°; 20% white-grey quartz-calcite veins up to 40 cm in length; fair core, 99% recovery.					
100.70	103.45		CALCAREOUS SHALE Even light & dark grey bands ranging from a few mm to 5 cm, banding 52° @ 100.70, 60° @ 103.40, no folding or variations; good core; 99% recovery; darker bands predominant.					
103.45	105.00		WAVY BANDED LIMESTONE similar to (88.40 - 100.70) preceding, light grey bands predominate and are up to 3 cm thick with finer, wavy 1 cm to 1 mm darker bands; 50° banding with no variations, 99% recovery.					
105.00	108.50		CALCAREOUS SHALE As (100.70 - 103.45') above; even 55° laminations, 99% core recovery with core in 50 cm pieces; occasional white quartz-calcite vein to 1.5 cm cutting across banding.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-1

METRES FROM	METRES TO	SECTION	DESCRIPTION
108.50	110.80		WAVY BANDED LIMESTONE mainly light grey with light colored boudinaged limestone bands @ 55° up to 5cm thick with lesser and thinner discontinuous silty bands; excellent core in pieces to 50 cm; occasional mm. calcite veins at various angles cross-cutting bedding; 99% core recovery.
110.80	118.60		CALCAREOUS SHALE Alternating light grey and dark grey beds @ 50-60°; dark grey beds are predominant; beds range from 1 mm to 5 cm; generally very good core, 99% recovery, but with numerous bedding plane breaks @ (115.9 - 116.4) and (117.0 - 118.6).
118.60	118.70		CRYPTOGRAINED LIMESTONE Light grey, fine grained with minor fine dark clasts of fossil debris; occasional fine silty band; contact @ 55° conformable with preceding unit.
118.70	118.80		CALCAREOUS SHALE As (110.8 - 118.6) preceding; 55° bedding.
118.80	133.20		CRYPTOGRAINED LIMESTONE Light gray, fine grained, vague banding and stylolitic structures at 30 - 45°; about 10% brownish mudstone clasts and fracture infilling; mudstone carries fine pyrite - total less than 1% over total section; some fine spotty dark grey organic clasts and possible fossil debris; excellent core in pieces to 40 cm.
END OF HOLE			(125.5 - 125.6) Fault - sheared brown mudstone with clay gouge at 45°.

SAMPLE NO.	FROM	TO	LENGTH	ASSAYS

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-2

PROPERTY	TP OR AREA	AZIMUTH	DATE STARTED	CORRECTED DIP TESTS			
MEL	NTS 95D-6, YUKON	GRID WEST (273°)	FEB. 23, 1987	No	Tests		
PROJECT	LOT & CONC.	DIP	DATE COMPLETED				
6250	SECTION 90 N	-60°	FEB 23, 1987				
CLAIM NO.	CO-ORDINATES.	LENGTH	DRILLED BY				
JEAN 19	8943.0 N	38.71 m	D.J. DRILLING LTD				
GRID NO.	10045.4 E	COLLAR ELEV. 900.2	LOGGED BY D.C. MILLER				

LOCATION SKETCH OF HOLE

METRES FROM	METRES TO	SECTION	DESCRIPTION
			B.Q CORE
			OBJECTIVES:- Test south of Mel Deposit.
0	6.10		Casing, no core; overburden mostly silty till.
6.10	23.77		CALCAREOUS SHALE Light to dark grey with alternating lighter and darker bands; bedding tends to be finely laminated, however beds are locally up to 3 cm thick; occasional calcite quartz vein mainly less than 5 mm thick cross-cutting bedding; generally fair core with about 90% recovery; includes some wavy banded limestone. (6.10 - 9.00) - 35 - 40° bunding, boudinage structure well developed (wavy banded limestone) (9.00 - 9.15) - Quartz - calcite vein, broken at contacts. (9.15 - 14.02) - Finely laminated with many core breaks, core pieces average 5 cm; core breaks along bedding planes @ 0-70°; soft, broken pitted core at (11.53 - 12.70). (14.02 - 23.77) - Similar to preceding; bedding 0-25° @ (14.02 - 17.30) and 45-70° @ (17.30 - 23.77); good core in pieces to 45 cm; broken core at (15.70 - 15.90), (19.10 - 19.50) and (21.45 - 21.64); crushed core at (21.93 - 23.77) with 20% core recovery (otherwise 95% core recovery).

SAMPLE NO.	FROM	TO	LENGTH

ASSAYS

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-2

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
23.77	38.71		CRYPTOGRAINED LIMESTONE					
			Light gray, generally fine-grained, contains 2% irregular shaped clasts of brown mudstone; also contains some irregular shaped gray limestone clasts; generally excellent core in pieces to 60 cm; 99% core recovery; local vague 50° banding.					
			(23.77 - 24.90) Possible fossil debris; very minor local pyrite.					
END OF HOLE								

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-3 SHEET 1 OF 2

PROPERTY	TP OR AREA	AZIMUTH	DATE STARTED
MEL	NTS 95 D-6, YUKON	GRID WEST (273°)	FEB. 23, 1987
PROJECT	LOT & CONC.	DIP	DATE COMPLETED
6250	SECTION 90 N	-85°	FEB. 24, 1987
CLAIM NO.	CO-ORDINATES.	LENGTH	DRILLED BY
JEAN 19	8943.0 N	66.75	D.J. DRILLING LTD.
GRID NO.	10045.4 E	COLLAR ELEV. 900.2	LOGGED BY D.C. MILLER

CORRECTED DIP TESTS			
No	Tests		

LOCATION SKETCH OF HOLE

METRES FROM	METRES TO	SECTION	DESCRIPTION
			OBJECTIVES:- Test south of Mel Deposit.
0	6.10		Casing, no core; overburden mostly silty till.
6.10	54.00		CALCAREOUS SHALE. Light and dark grey alternating bands ranging from a few mm to 4 cm; locally finely laminated; considerable variation in core angles: 35° @ 8.00, 0-40° @ 11.00, 5-30° @ (11.00-15.00) 35-50° @ (15.00-19.00), 0-30° @ (22.00-28.00); core tends to be broken with minor brownish discoloration due to surface oxidation; occasional white calcite-quartz vein - generally less than 10 cm thick; section includes some wavy banded limestone. (19.60-20.10) - White calcite-quartz vein. (20.60-21.86) - Broken core associated with strong veining by white calcite-quartz veins to 4 cm thick. Banding: - 35° @ (29.00-32.00) 0-30° @ (32.00-37.00), 20-40° @ 37.00-47.00), 0-30° @ 47.00-54.00). Core recovery: - 70% @ (18.30-22.60), 60% @ (36.60-39.00), otherwise 90-95%. Broken core: - (36.80-39.90), (41.15-42.08), (44.30-44.70), (46.50-46.90) and (50.40-54.00).

SAMPLE NO.	FROM	TO	LENGTH

ASSAYS

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-3 SHEET 2 OF 2

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
54.00	54.50		CRYPTOGRAINED LIMESTONE Light grey, pitted, leached and intensely folded with 0-70° banding.					
54.50	55.00		CALCAREOUS SHALE Light and dark grey, finely laminated, intensely folded at 0-60°; contains minor cryptograined limestone; broken core in 10 cm pieces.					
55.00	66.75		CRYPTOGRAINED LIMESTONE Light grey with about 5% clasts and fracture fillings of brown mudstone and approximately 10% roundish clasts of grey limestone; traces of fine pyrite at 55.00; occasional white calcite vein up to 5 cm thick; generally excellent core in pieces to 60 cm. (55.00 - 55.40) - Fold with 50° limbs; core of fold is calcareous shale.					
END	OF							
HOLE								

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-4 SHEET 1 OF

PROPERTY: MEL	TP OR AREA: NTS 95D-6 YUKON	AZIMUTH: 273° (GRID WEST)	DATE STARTED: FEB. 24, 1987	
PROJECT: 6250	LOT & CONC. SECTION 98+59 N	DIP: -76°	DATE COMPLETED: MAR. 3, 1987	
CLAIM NO.: JEAN 4	CO-ORDINATES: 9861.1 N	LENGTH: 515.72	DRILLED BY: D.J. DRILLING	
GRID NO.:	10287.2 E	COLLAR ELEV.: 902.2	LOGGED BY: D.C. MILLER	

CORRECTED DIP TESTS

DEPTH	DIP	AZIMUTH
180m	-76°	282°
350m	-72.2°	275°
504m	-70.0°	279°

LOCATION SKETCH OF HOLE

TESTS: (SPERRY SUN - CORRECTED 30° FOR DECLINATION

METRES FROM	METRES TO	SECTION
0	6.10	
6.10	212.45	

B.Q. CORE

DESCRIPTION

OBJECTIVES:- TEST MEL DEPOSIT AT DEPTH.

casing - no core.

WAVY BANDED LIMESTONE.

Light and dark grey alternating bands with boudinage structure; lighter colored bands are often drawn out into sausage shaped pods surrounded by darker, silty bands; locally nearly massive with no layering; light colored bands 2-4 cm thick, dark bands less than 5mm thick.

(6.10 - 16.15) - Pale brown colored because of surface oxidation; 0 - 70° banding broken core, 97% recovery.

(15.90 - 16.50) - massive; good core.

(16.50 - 20.90) - 10 - 40° banding, good core. 99% recovery.

(20.90 - 23.00) - Pale brown, broken, 90% recovery.

(23.00 - 25.50) - 50° banding, unaltered, core breaks parallel to banding - 2 - 20 cm pieces; minor oxidized pyrite @ 25.50 associated with calcite vein; some talc? on core breaks.

(25.50 - 26.50) - nearly massive, good core.

(16.40 - 30.00) - occasional white quartz-calcite vein to 3 cm cross-cutting bedding.

(26.50 - 28.50) - 75° banding, minor oxidation, good core.

(28.50 - 36.40) - oxidized, broken, leached core in pieces 1 cm to 20 cm, about 90% core recovery; 30° banding.

(36.40 - 49.90) - Mostly unoxidized with 30-40° banding; broken @ (43.50 - 43.60) 95% core recovery.

SAMPLE NO.	FROM	TO	LENGTH

ASSAYS

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-4 SHEET 2 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
CONT'D			WAVY BANDED LIMESTONE (CONT'D)					
6.10	22.45		(49.90 - 51.10) - Nearly massive, good core.					
			(51.10 - 54.00) - Banded @ 30 - 45°, good core.					
			(54.00 - 54.90) - White quartz - calcite vein @ 0 - 15°.					
			(54.90 - 56.20) - Banded at 0 - 35°, broken core.					
			(56.20 - 58.10) - White quartz - calcite vein @ 0 - 15°.					
			(58.10 - 59.70) - Wavy banded at 0 - 30°, good core. 59.55 - 1 cm of fine grained pyrite.					
			(59.70 - 60.50) - 50% white quartz - calcite veining @ 0 - 45°.					
			(60.50 - 61.26) - Badly broken core, oxidized vein zone about 30% recovery.					
			(61.26 67.90) - 15% quartz - calcite veining with veins @ 0 - 80°, minor brown discoloration good core.					
			(67.90 - 71.80) - Unaltered, wavy banded @ 15 - 40° excellent core in pieces to 110 cm.					
			(71.80 - 80.80) - Slightly brownish colored with 5% white quartz - calcite veining to 2 cm thick; good core, but broken @ (73.10 - 73.46), (74.70 - 75.20), (76.40 - 76.50), (77.40 - 78.30) - 95% core recovery; 25 - 50° banding.					
			(80.80 - 84.00) - More intensely altered with 10% brown patches of siderite? and 10% quartz calcite veins to 10 cm thick, some semi-open vuggy fractures, good core 99% recovery.					
			(84.00 - 100.50) - Unaltered, banded @ 55 - 70°, fair core, broken @ (93.00 - 100.50) with core breaks parallel to banding and 2 cm - 10 cm pieces; core recovery (84.00 - 96.93) - 95%, (96.33 - 100.50) - 90%.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. MEL 87-4 SHEET 3 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
6.10	212.45		WAVY BANDED LIMESTONE (CONT'D).					
			(100.50 – 116.00) Similar to preceding but not as broken, core in pieces up to 20 cm; occasional blob of pyrite; banding – 25° @ 101.5, 50-65° @ (102.00 – 114.60), 30° @ (114.60 – 116.00); less than 1% white quartz-calcite veins cross-cutting banding @ various angles, mainly less than 1 cm but locally up to 20 cm.; core recovery (100.50 – 101.50) – 90%, (101.50 – 115.20) 95%.					
			(116.00 – 129.40) Similar to preceding; banding averages 60°; core tends to broken into pieces mainly less than 10 cm.; core recovery 95%; 3% white quartz-calcite veins to 3 mm thick.					
			(129.40 – 143.00) Similar to preceding; banding @ 45-60°; better core in pieces averaging 10 cm; breaks parallel to banding; core recovery 99%; about 2% fine quartz-calcite veins to 1 cm. thick; a few 1 cm blobs of fine pyrite @ 137.16.					
			(143.00 – 164.70) 164.70 Similar, fairly uniform banding @ 45°, light colored bands mainly about 2 cm, occasionally up to 20 cm.; darker grey silty bands less than 1 cm.; strong boundinage structure with darker bands sometimes enclosing lighter colored boudins; core breaks parallel to banding with talcose surfaces (slippery); occasional 2 cm or smaller calcite-quartz veins; 95% core recovery.					
			158.70 – Fold axis with limbs @ 45°.					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
6.10	212.45		WAVY BANDED LIMESTONE - (CONT'D.)					
			(164.70 - 212.45) Similar to preceding, occasional quartz-calcite vein to 20 cm.; banding mainly @ 45-60°, but @ ∅ -60° @ ~~retro~~ (180.50 - 185.80) (folded); minor local framboidal pyrite. Also fold axes @ 173.70 with 50 and 20° limbs; 95% core recovery. soft broken core @ (174.30 - 174.50).					
			(196.10 - 193.00 - Banding @ 40-65°.					
			(193.00 - 203.40) - Folded @ 0 - 40°; fold ~~axis~~ axes @ 192.3, 192.70 & 198.50.					
			(203.40 - 212.45) 25 - 50° banding.					
212.45	213.15		QUARTZ-CALCITE VEIN					
			White with watery grey blobs of quartz; no sulphides; 45° contacts ~~bad~~ nearly parallel to banding.					
213.15	263.20		WAVY BANDED LIMESTONE As preceding, banding 40° @ 220, 50-60° @ (227.00 - 240.00), 35°-45° @ (240 - 263.20); core is tending to be more broken, particularly @ (254.50 - 257.40) where it is in 2-10 cm pieces; occasional blob or veinlet of framboidal pyrite, total pyrite much less than 0.10%; core breaks along smooth partings parallel to banding; 95% core recovery.					
263.20	270.70		LIMESTONE Pale grey with very fine silty layers, banding @ 30-35°; very minor blebs of framboidal pyrite; good core 94% recovery; 10% calcite-quartz veins to 10 cm.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-4 SHEET 5 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
270.70	303.00		WAVY BANDED LIMESTONE (CONT'D) Light and dark grey with increasing darker bands as compared to preceding; fairly uniform banding @ 25-35°; occasional white calcite-quartz veins to 10 cm; 99% core recovery. (278.89 - 279.00) Brecciated with minor soft grey clay.					
			Broken core @ (279.40 - 279.50), (279.73 - 280.20) (281.10 - 281.35), (286.90 - 287.00) & (289.56 - 289.70) - open vugs with calcite crystals @ 289.60.					Drillers report increase in water at 283 m with fine sand.
			(290.70 - 303.00) minor framboidal pyrite associated with calcite blebs.					
			273.00 & 273.70 - Very fine unknown brassy metallic mineral - specimens taken.					
			(299.50 - 300.25) 3 fold axes in this interval with 15-30° limbs.					
303.00	320.00		WAVY BANDED LIMESTONE Similar to preceding but banding now averages 45° and ranges from 35-70°; minor pyrite associated with calcite-quartz blebs and veins up to 20 cm thick; good core; 99% recovery.					
320.00	340.80		WAVY BANDED LIMESTONE similar to preceding, banding averages 40° and ranges from 0-70°; good core with 99% recovery; core breaks on partings parallel to banding and averages 1 break per 15 cm; occasional white calcite-quartz vein to 25 cm, mainly less than 4 cm; several short 2 cm discontinuous white calcite veinlets healing short tension fractures cutting banding at various angles; 99% core recovery.					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
340.00	433.00		WAVY BANDED LIMESTONE (CONTD) As preceding, better core, core breaks average 25cm with some pieces over 50 cm; 99% core recovery; increasing volume of dark bands. Banding: (340.00 - 363.00) averages 30° (363.00 - 374.90) " 12°; ranges from 0 - 15°. 374.90 = Fold axis (374.90 - 377.00): banding averages 25° (377.04 - 398.00) " " 35° (398.50 - 400.00) " " 90° 355.70 - minor framboidal pyrite associated with calcite; also @ 395.40. (364.50 - 366.50) - larger pale grey bands with some fossil debris; specimen taken @ 364.54. (400.00 - 404.50) - several short 1-2cm discontinuous white calcite veins cutting darker bands nearly at right angles; similar to (320.00 - 340.00); 42° banding; bands 1cm+ with light grey to dark grey band ratio 3:1; minor pyrite-calcite nodules. (404.00 - 421.00) Banding @ 45°; strong boudinage structure; dark bands 1 - 3 mm; light bands 5 - 20 mm; minor pyrite-calcite nodules. (421.00 - 428.00) Banding @ 35 - 30° uniform; strong boudinage structure. 0 - 40° (428.00 - 433.0) Banding @ 0 - 40°, minor folding, average about 25°; percent of dark bands increasing to 1:1 ratio of dark to light bands 2cm+ wide; boudinage structure weakening.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-4 SHEET 2 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT ZINC	LEAD	BARIUM	BARITE
433.00	452.50		CALCAREOUS SHALE Darker bands now predominant with dark bands to light bands 4:1; consists of many fine dark and light bands (2mm ±) with larger (1cm) light grey bands spaced 4cm apart; banding @ 30-25°; boudinage structure weakening; partings parallel to banding increasing to 1 per 10 cm locally; 99% recovery; 2% calcite-quartz veins to 10cm thick. (448.50 - 452.50) Banding @ 0-15°, light grey bands increasing.								
452.50	457.00		WAVY BANDED LIMESTONE Light and dark grey with boudins of light grey limestone about 4cm x 2cm enclosed by anastomosing dark grey silty limestone; banding @ 0-20°; 99% recovery; minor pyrite associated with calcite blebs; 2% quartz calcite veins to 4cm.								
457.00	463.15		CALCAREOUS SHALE alternating Consists of uniform light and dark bands about 2cm thick at 35° and a 1:1 ratio; 2% white calcite-quartz veins to 2cm thick.								
463.15	489.60		CALCAREOUS SHALE As 433.00 - 452.50; 15-25° banding @ (463.15 - 471.00) dark to light bands 4:1; banding 30-50° @ (471.00 - 489.60); excellent core; 94% recovery, core breaks along bedding planes, approximately 1 break per 20 cm. 466.40 m Bedding plane fault @ 20° with 1 cm clay gouge. (474.70 - 476.20) - Boudinage structure with ratio of dark to light bands 1:2. (476.20 - 489.60) - Becomes increasingly more finely laminated; dark to light 2:1. (488.60 - 489.60) - Becomes lighter colored to light grey; some beds non-calcareous near 489.60; very fine discontinuous pyrite veinlets, less than 1 mm thick mainly parallel to banding; last 10 cm very fissile with 2cm breaks along smooth partings.	42351	488.60	489.60	1.00	L 0.01	0.08	0.45	

x L = LESS THAN

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-4 SHEET 8 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT ZINC	LEAD	BARIUM	BARITE
489.60	496.92		MINERALIZED CALCAREOUS SHALE Light greenish-grey, generally finely laminated, laminations uniform at 40-60° from (489.60 - 493.51) and then are variable with folding and range from 0-70° and average about 45°; generally good core with minor broken sections; becomes non-calcareous towards 496.92.								
			Mineralization includes:								
			(1) Fine galena and pyrite veinlets generally less than 1 mm thick, but ranging up to 3 mm; these both parallel and cross-cut bedding; combined galena-pyrite content is about 2% with about 1% galena.								
			(2) Barite and barite quartz veins containing minor honey colored to brown sphalerite in single and multiple grains ranging up to several cm in size; minor pyrite occurs at the edges of some sphalerite blobs.								
			(489.64 - 489.86) - Barite - calcite vein with fair galena.	42852	489.60	491.60	2.00	0.06	0.98	2.53	4.30
			(489.86 - 491.79) - Calcareous shale with minor fine galena and pyrite veinlets.								
			(491.79 - 492.37) Coarse grained white to grey barite with minor sphalerite and galena near 492.37.	42853	491.60	492.95	1.35	0.25	0.09	28.86	49.04
			(492.37 - 492.95) - Calcareous shale with minor fine galena and pyrite veinlets.								
			(492.95 - 496.92) - Contains 40% barite-quartz veining and replacement with minor brown sphalerite, galena and pyrite; approximately 2% sphalerite and 1% galena.	42854	492.95	495.00	2.05	2.20	0.21	19.39	32.95
				42855	495.00	496.92	1.92	2.90	0.35	14.83	25.20

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT ZINC	LEAD	BARIUM	BARITE
496.92	498.30		MINERALIZED SILICA ZONE Light grey with a mottled brecciated texture due to various stages of veining and replacement; minor remnants of calcareous shale near 496.92; minor barite veining; minor white calcite; contains approximately 3% sphalerite in disseminated blobs to 1cm with lesser amounts of galena and pyrite; sphalerite ranges from honey colored to brown; excellent core, 95% recovery.	42856	496.92	498.30	1.38	0.69	0.02	15.75	26.77
498.30	499.60		BARITE white to grey, course grained, minor sphalerite near contacts, excellent core 99% recovery; contacts at approximately 35°.	42857	498.30	499.60	1.30	0.64	0.01	55.66	94.59
499.60	509.93		MAIN MINERALIZED ZONE Consists of masses and individual blobs of brown and honey colored sphalerite in a matrix of barite, mudstone and quartz; excellent core with 99% recovery; the presence of brown mudstone indicates the original rock was cryptograined limestone; minor galena and pyrite are also present; total sphalerite content is approximately 15% with less than 1% galena and about 1% pyrite including very fine grained pyrite in brown mudstone clasts ranging up to 10 cm; approximately 1% white sericite is present in mudstone; high barite low sphalerite sections occur at (503.50 - 503.80) and (507.20 - 508.00); matrix calcite is present at (509.00 - 509.93). (499.60 - 501.60) - approximately 25% sphalerite, 10% barite	42858	499.60	501.60	2.00	29.20	0.03	14.83	25.20
			(501.60 - 503.60) - " " 5% " " 70% "	42859	501.60	503.60	2.00	6.95	0.05	30.59	51.98
			(503.60 - 505.60) - " " 12% " " " "	42860	503.60	505.60	2.00	6.90	0.01	38.09	64.73
			(505.60 - 507.20) - " " 12% " " " "	42861	505.60	507.20	1.60	7.75	0.01	39.42	66.99
			(507.20 - 508.00) - " " Trace " " 90% "	42862	507.20	508.00	0.80	0.01	0.01	55.33	94.03
			(508.00 - 509.93) - " " 17% " " 60% "	42863	508.00	509.93	1.93	13.60	0.02	29.59	50.29
				Average	499.60	509.93	10.33	12.08	0.02	32.09	54.53
509.93	510.86		DOLOMITIZED CRYPTOGRAINED LIMESTONE Yellowish grey, contains 20% brown mudstone clasts; 2% fine grained pyrite is associated with mudstone as fine disseminations; traces of fine sphalerite.	42864	509.93	510.86	0.93	0.32	0.02	0.93	1.58

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-4 SHEET 12 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT ZINC	LEAD	BARIUM	BARITE
510.86	515.72		CRYPTOGRAINED LIMESTONE								
			mainly pale grey, minor yellowish discoloration								
END OF HOLE			at (510.86 – 511.45); core tends to broken with	42865	510.86	512.20	1.34	0.01	0.02	0.40	0.68
			90% core recovery; core breaks average 1 per	42866	512.20	515.72	0.52	L0.01	0.02	0.16	0.27
			5cm and occur along fine calcite healed								
			fractures at various angles; some fractures			L = LESS than					
			are partly leached and open.								
			(510.86 – 512.20) – contains 25% brown mudstone								
			clasts with fine disseminated pyrite								
			(2%) and very minor sphalerite.								
			(512.20 – 515.72) – contains traces of pyrite								
			and sphalerite, may contain some barite.								

NOVAMIN RESOURCES INC. — DRILL LOG — HOLE NO. 87-5

PROPERTY	TP OR AREA	AZIMUTH	DATE STARTED
MEL	NTS 95D-6, YUKON	273° (GRID WEST)	MAR. 4/87
PROJECT	**LOT & CONC.**	**DIP**	**DATE COMPLETED**
6250	SECTION 100+06 N	-77°	MAR. 10/87
CLAIM NO.	**CO-ORDINATES.**	**LENGTH**	**DRILLED BY**
JEAN 4	10,006.1 N	399.59	D.J. DRILLING LTD
GRID NO.		**COLLAR ELEV.**	**LOGGED BY**
	10,227.9 E	902.5	D.C. MILLER

CORRECTED DIP TESTS

DEPTH	DIP	AZIMUTH
152	-75.0°	257°
300	-67.2°	258°
396	-63°	258½°

~~LOCATION SKETCH OF HOLE~~

TESTS:
(SPERRY-SUN B SINGLE SHOT CORRECTED 30° FOR MAGNETIC DECLINATION.)

METRES FROM	METRES TO	SECTION
0	51.82	
51.82	331.80	

BQ CORE

DESCRIPTION

OBJECTIVES:- TEST MEL DEPOSIT AT DEPTH

overburden

casing, no core; ↓mostly silty till with few large boulders.

WAVY BANDED LIMESTONE.

(51.82 - 75.80) - Light and dark grey alternating bands; light bands average 1cm or more in width and dark bands average less than 5 mm; dark bands are anastomosing and may enclose light bands creating boudinage structure; occasional light bands range up to 25cm in width; rare blob or veinlet of fine grained pyrite associated with calcite; about 5% white calcite and calcite-quartz veinlets ranging from less than 1 mm to 2cm at various angles; also some parallel 1 mm discontinuous calcite veinlets cutting darker bands at nearly right angles causing a striped texture; core tends to be blocky and breaks into pieces generally less than 10 cm; core recovery mainly 90-95%.

(63.70 - 64.62) Broken, ground core 20% recovery

Banding: (52.40 - 67.00) 30-40°
(67.00 - 75.80) 50-70°

(75.80 - 97.20) - Similar to preceding; banding 40-45° @ (76.80 - 80.50), 60-80° @ (80.50 - 94.00) 50-65° @ (94.00 - 97.20); local strong boudinage structure; blocky & broken core; breaks average 10 cm; 95% recovery; fold axis or drag fold @ 93.50°.

SAMPLE NO.	FROM	TO	LENGTH

ASSAYS

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
			WAVY BANDED LIMESTONE, CONTD					
			(97.20 - 119.50): similar to preceding; banding 75-50° @ (97.20 - 99.00), 25-30° @ @(99.00 - 108.00) 40-70° @ (108.00 - 113.00), 60° @ (113.00 - 119.40).					
			Siliceous, pyritic limestone @ (111.90 - 112.15); generally fair core with 95% recovery; broken core @ (97.60 - 98.76) with 30% recovery; also at (107.63 - 107.80) and 117.20 - 119.50), but with 90% recovery; core breaks along bedding plane partings; core ranges from pieces up to 40 cm to finely crushed pieces in broken areas.					
			(119.50 - 133.20) similar to preceding; banding ranges from 50-70° and averages 65°; fair core in pieces averaging 5 cm; breaks along smooth partings parallel to banding; broken @ (121.40 - 121.70) & (122.90 - 123.30); occasional thicker light colored bed to 15 cm thick; light colored bands average more than 2 mm thick with weak bandimage structure; rare pleb of fine pyrite associated with calcite; 5% white calcite - quartz veining mainly as fine 1 - 2 mm veinlets at various angles, but some larger veins ranging up to 10 cm; core recovery 95%.					
			(133.20 - 155.00) similar to preceding but light bands are now thinner averaging 1 cm; banding ranges from 90 to 10° and averages 65°; minor fine pyrite associated with calcite blobs up to 1 cm in size; 5% calcite - quartz veining; fair core generally in pieces more than 5 cm long but broken into smaller pieces @ (141.20 - 142.95) & (147.40 - 147.60).					
			90% calcite - quartz veining @ (147.60 - 149.36) Several tight folds @ (149.80 - 155.00) with some brecciation.					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
51.82	334.80		WAVY BANDED LIMESTONE CONT'D					
			(155.00 - 187.30) Similar to preceding; boudinage structure strongly developed; light colored bands and beddins are commonly 1 cm thick but range up to 5cm locally; approximately 5% white calcite-quartz veining with larger veins up to 10 cm commonly sub-parallel to banding while thinner veinlets (1mm) are oriented at random angles; dark bands average 2mm thick; now excellent core in pieces averaging 30 cm; 99% recovery; rare fine pyrite blebs to 1cm associated with calcite. Banding - 60° @ (155.00 - 159.00), 50° @ (159.00 - 164.00), 40° @ (164.00 - 171.5) 30-50° @ (171.50 - 184.00) with minor drag folds; 10-50° @ (184.00 - 187.30 with several folds.					
			(185.50 - 186.54) Broken core with several smooth talcy bedding plane breaks; apparently a water saturated area.					
			(187.30 - 195.90) Large light colored bands to 0.80 m with minor pyrite and 50° banding; some striped texture with closely spaced short calcite veinlets at right angles to darker bands; fault at 193.80 with 5cm gouge @ 50°; excellent core, 99% recovery;					5% white calcite quartz veins to 5cm.
			(195.90 - 207.00) Light colored bands average 1 cm, dark colored bands average 1mm; some boudinage structure; banding @ 0-70°; average 50°; good core, 99% recovery; 5% white quartz-calcite veins to 5cm.					
			(207.00 - 211.80) Light colored bands to 4cm with strong boudinage structure; banding at 30.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-5 SHEET 4 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
51.82	331.80		WAVY BANDED LIMESTONE (CONTD.)					
			(211.90 - 224.70) Light grey laminations average 1 cm; dark grey bands average 1 mm but range up to 1 cm; weak boudinage structure.					
			Banding @ 40 - 80°.					
			Calcite - quartz veining: - 5% with veins to 8 cm generally parallel to banding.					
			Core: generally excellent, broken @ (222.00 - 224.00) into 2 - 10 cm pieces; core breaks parallel to banding mainly in pieces. 10 - 50 cm; 99% recovery.					
			(224.70 - 229.80) Light grey bands strongly boudinaged and range up to 3 cm, dark bands very fine but range up to 5 mm; minor pyrite associated with calcite blobs (3 mm) (less than 0.10%). Banding 45° average but 0 - 15° near 229.00; 99% core recovery.					
			(229.80 - 241.70) Light grey bands average 1 cm or less, dark grey bands range from less than 1 mm to 5 mm.					
			Banding: 30 - 45°					
			Core: Excellent, 99% recovery					
			Calcite - Quartz veins - range up to 12 cm, approximately 5% mainly parallel to banding.					
			(241.70 - 295.10) Several larger light grey bands ranging up to 1 m; excellent core, 99% recovery,					
			Banding: 15 - 90°; average 30°.					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
51.82	331.80		WAVY BANDED LIMESTONE CONT'D					
			(245.10 - 247.47) light grey bands range up to 2 cm with strong boudinage structure, dark grey bands range up to 1 cm; 40° banding, excellent core, 99% recovery.					
			(247.47 - 260.00) Finer laminations with light grey bands 1 cm or less and dark grey bands 1 to 6 mm; excellent core, 99% recovery; banding 40° - 30°. quartz calcite veining 2% no preceding; coarser bands @ (254.40 - 256.00).					
			(260.00 - 264.00) Relatively coarse bands of light grey and dark grey limestone; light bands up to 3 cm, dark bands up to 2 cm; uniform banding at 35-45°; excellent core; 99% recovery; 1 cm blob pyrite - calcite @ 262.20.					
			(264.00 - 267.31) Coarse light bands to 5 cm with very fine dark bands; 45-50° banding. excellent core; 99% recovery.					
			(267.31 - 281.50) Light bands mainly 1 cm or less, occasionally up to 10 cm; dark bands 1 - 5 mm; excellent core, 99% recovery; uniform 40 - 50° banding; 2% calcite-quartz veining; traces of pyrite associated with calcite.					
			(281.50 - 298.50) Sharp increase in percentage and thickness of dark grey bands to 40%; dark gray bands range up to 2 cm. as do light grey bands; uniform 40 - 50° banding; most bands or laminations are only a few mm thick, however; light grey bands becoming thicker and dark grey bands thinner towards 298.50; 2% white calcite - quartz veining with some striped texture @ (295.00 - 294.00) (several quartz-calcite veinlets 1 - 2 cm long cutting darker bands at right angles).					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
51.82	331.80		WAVY BANDED LIMESTONE CONT'D					
			(298.50 - 303.45) Similar to preceding but dark grey bands are thinner averaging about 2mm; light grey bands range up to 2cm.; banding at 45°; excellent core, 99% recovery.					
			(303.45 - 310.50) Dark grey bands become thicker, locally over 1cm; banding @ 50-70°, averages 35°; good core but slightly more blocky with breaks parallel to banding about 1 per 10 cm; 99% core recovery; large light grey band @ (305.13 - 305.52)e					
			(310.50 - 319.60) Dark grey bands become thinner averaging 2mm, light grey bands generally less than 1cm; strong boudinage structure; banding @ 75-45°; good core as preceding					
			(319.60 - 331.80) Dark grey bands become thicker; banding @ 30-45°; good core as preceding; strong boudinage structure; large light grey band at (132.20 - 132.50)					
331.80	331.80	387.95	CALCAREOUS SHALE Gradational from wavy banded limestone as dark grey bands equal or exceed the volume of light grey bands; light grey bands 1cm or less, dark grey bands up to 3cm; individual bands are composed of finer laminations (1 mm approximately); generally excellent core with 99% recovery; very minor calcite-quartz veining less than 1cm thick (1%). (345.00 - 348.00) - strong boudinage structure.					
			(331.80 - 351.00) - uniform 40 - 30° banding.					
			(351.00 - 355.00) - 0 - 15° banding					
			(355.00 - 362.00) 15 - 30° banding (362.00 - 370.00) 30 - 40° banding.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-5 SHEET 7 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT Zn	Pb	Barium	Barite
331.80	387.95		CALCAREOUS SHALE CONT'D								
			(370.50 - 387.95) 50 - 64° bunding								
			(359.50 - 374.22) Contains 1% fine - grained pyrite associated with calcite veinlets.								
			(357.50 - 387.95) Strong increase in dark bands with the ratio of dark to light bands 3 : 1 ; composite dark bands range up to 5 cm. and are composed of many fine dark and few light colored laminae ; light colored bands are generally less than 1 cm.								
			(374.22 - 387.95) Approximately 2% very fine grained pyrite veinlets (less than 1 mm) mainly parallel to bedding.								
			(387.45 - 387.95) Very minor (less than $\frac{1}{2}$% galena associated with fine pyrite veining ; minor brecciation and silicification.	42867	387.95	387.95	0.50	L 0.01	0.41	0.08	
			(383.70 - 387.95) Increasingly less calcite content, some short sections with no acid reaction.		L = Less than						
			(384.35 - 386.50) Blocky core with pieces to 1 cm breaking parallelly to bedding planes ; breaks with smooth ~~talcy~~ surfaces. talcy								

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-5 SHEET 8 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT Zn	Pb	Barium	Barite
387.95	394.10		ORE ZONE								
			(387.95-388.96) matrix is composed of brecciated quartz and calcite with about 10% white calcite blobs and discontinuous veins to 5 cm thick; quartz varies from light to dark grey and includes some silicified shale; matrix contains about 5% brown and honey colored sphalerite ranging from fine grains to blobs to 1 cm ~~wide~~ which are disseminated throughout the matrix; minor sphalerite is also present as fine veinlets; about 1% galena is present as blobs to 2 cm in size and as fine veinlets; traces of very fine pyrite are present as rare disseminated grains and pyrite is also associated with galena locally; excellent core with 99% recovery.	42868	387.95	388.96	1.01	2.14	0.71	0.05	
				42869	388.96	391.00	2.04	19.20	4.65	0.04	
				42870	391.00	393.00	2.00	23.80	1.27	0.04	
				42871	393.00	394.10	1.10	29.40	0.03	0.03	
			(388.96-391.00) Matrix is composed of brecciated quartz, calcite and brown mudstone with approximately 70% quartz, 20% mudstone and 5% calcite; quartz varies from light to dark grey; mudstone has been replaced and veined by quartz and calcite; mudstone indicates the original host rock was cryptograined limestone; minor sericite has been formed from the alteration of mudstone. Total sphalerite content is approximately 25%, with about 10% galena; sphalerite is mainly brown with some honey colored sphalerite and occurs as fine grains to large blobs ranging up to several cm in size; about 1% pyrite is present as very fine grains in mudstone and as larger blobs interstitial to other minerals; excellent core with 97% recovery.	Average	387.95	394.10	6.15	19.72	2.08	0.04	0.07
			(391.00 - 393.00) - similar to preceding but with less galena; excellent core, 97% recovery								
			(393.00 - 394.10) - Similar to preceding but with very minor galena and about 25% sphalerite; excellent core 99% recovery.								

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-5

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT Zn	Pb	Barium	Barite
394.10	399.59		CRYPTOGRAINED LIMESTONE Light grey, massive, contains about 10% brown mudstone clasts of irregular shape and about 2% fine white calcite veins at various angles; core is locally leached along fine calcite veins (up to 3mm thick) and tends to break along these veins into pieces averaging about 10 cm; mudstone clasts contain very fine-grained pyrite as disseminations and fine veinlets (discontinuous) 1mm thick; core also contains minor grey irregular shaped limestone clasts ranging up to 2cm in size. (394.10 - 394.65) - large mudstone clast. Core recovery: 97%. END OF HOLE	42872	394.10	395.33	1.23	0.06	0.01	0.07	

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-6 SHEET 1 OF 4

PROPERTY	~~TOWNSHIP OR AREA~~	AZIMUTH	DATE STARTED	CORRECTED DIP TESTS		
MEL	NTS 95D-6 YUKON	273°	MARCH 10, 1987	DEPTH	DIP	AZIMUTH
PROJECT	LOT & CONC.	DIP	DATE COMPLETED	140	-80 3/4	304°
6250	SECTION 100+87 N	-79	MARCH 16, 1987	305	-79	276°
CLAIM NO.	CO-ORDINATES.	LENGTH	DRILLED BY	443	-74 3/4	264 1/2°
JEAN 4	10089.6 N	448.06	D.J. DRILLING LTD.			
GRID NO.	10216.3 E	COLLAR ELEV. 912.7	LOGGED BY D.C. MILLER			

~~LOCATION SKETCH OF HOLE~~

TESTS: SPERRY SUN SINGLE SHOT MAGNETIC CORRECTION 30°)

METRES FROM	METRES TO	SECTION	B.Q CORE DESCRIPTION
			OBJECTIVES:- TEST MEL DEPOSIT AT DEPTH
0	57.91		CASING, NO CORE. NOTE: TWO TRICONE WHEELS BROKE OFF AT 57.91 AND WERE DRILLED OUT WITH A DIAMOND BIT IN ORDER TO CONTINUE HOLE. OVERBURDEN REPORTED TO CONSIST OF MANY LARGE BOULDERS. THE HOLE WAS APPARENTLY DEFLECTED NORTH AND STEEPENED IN OVERBURDEN.
57.91	63.95		WAVY BANDED LIMESTONE Consists of alternating dark and light bands with light bands ranging from 1 cm to 10 cm and dark bands averaging about 2mm; banding averages 65°; core is broken and crushed with many pieces less than 2 cm; core recovery 60%; approximately 2% white calcite-quartz veins ranging from 1mm to 2cm at various angles; larger veins tend to parallel banding.
63.95	410.30		WAVY BANDED LIMESTONE similar to preceding, but better core, broken sections at (67.20 - 67.97), (69.00 - 69.20), (74.20 - 74.68); variable banding: 65° @ (63.95 - 66.00), 0 - 35° @ (66.00 - 72.00), 35 - 60° @ (72.00 - 80.00). approximately 2% calcite-quartz veining at various angles but mainly parallel to banding; veins range from less than 1mm to 1cm; fair core with breaks parallel to banding, breaks average about one per 10 cm; (65.00 - 83.00) increase in thickness of dark grey bands to an average of 5mm
			(63.95 - 69.20) 90% core recovery
			(69.20 - 88.39) 95% core recovery
			(65.00 - 73.00) minor fine pyrite, less than 1/10 % associated with calcite veining.

SAMPLE NO.	FROM	TO	LENGTH

ASSAYS

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
63.95	410.30		HEAVY BANDED LIMESTONE (CONT'D)					
			(74.00 - 94.70) - Strong boudinage structure.					
			(83.00 - 334.00) - Thickness and volume of dark grey bands decreases; dark grey bands average 3mm and light grey bands average about 1.5cm.					
			(80.00 - 94.70) Uniform banding at 65-70°.					
			(88.39 - 90.22) - 70% core recovery - broken core @ (89.61 - 90.22).					
			(90.22 - 118.86) - 95% core recovery; broken core @ (92.25 - 92.45) & (98.00 - 126.00) - Core tends to blocky and is broken into pieces averaging less than 5cm; breaks are parallel to banding.					
			(118.86 - 144.00) 90-95% core recovery.					
			(94.70 - 107.00) - Uniform 65-85° banding.					
			(107.00 - 135.30) - Folding with banding @ 0-80°, averages about 30°; fold axes @ 108.40, 109.80, 114.70, 115.20, 115.90, 121.20 & 122.00. Broken core at (106.00 - 106.20) (107.90 - 108.40), (110.20 - 111.40), & (117.90 - 120.10). Large light grey bands ranging up to 50cm @ (103.57 - 104.00) and between 114.90 & 116.75. Further fold axes at 124.40, 124.70, 129.00, 129.70 and 135.30.					
			(131.60 - 139.00) - Section with relatively thick light grey bands averaging 4cm.					
			(125.00 - 144.00) - Core improving with breaks parallel to banding averaging 1 per 10 cm; rare pyrite associated with calcite.					
			(135.30 - 144.00) Banding uniform @ 45-50°.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-6 SHEET 3 OF 3

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
163.95	410.30		(WAVY BANDED LIMESTONE (CONT'D)					
			(144.00 – 163.00) Blocky core in pieces averaging 4cm and breaking along bedding planes; uniform banding at 60-75° except for tight fold at 154.10; minor pyrite; less than 2% fine calcite veins less than 1cm thick at various angles; 95% core recovery.					
			(163.00 – 171.30) Similar but better core in pieces averaging 15cm; 99% recovery; banding @ 45-50°; rare pyrite associated with calcite nodules to 2cm size.					
			170.40 – Fold axis with 45° limbs.					
			(171.30 – 179.00) Blocky core in pieces averaging about 5cm; banding @ 30-65°; fold axis at 178.60 with 60° limbs; 3% calcite – quartz veining ranging up to 4cm but generally 2mm; 99% core recovery.					
			(179.00 – 209.40) Now generally excellent core in pieces ranging up to 1m; many breaks cut across bedding planes; rare pyrite associated with calcite veining 99% recovery.					
			(185.20 – 187.20) – 20% calcite-quartz veins up to 10 cm thick. mainly @ 60°.					
			Banding: 50° at (179.00 – 187.00) 25° at (187.00 – 194.00), 20-15° @ (194.00 – 209.40).					
			(186.00 – 183.00) occasional light grey band ranging up to 20 cm thick.					
			(187.20 – 202.60) – 1% calcite-quartz veins					
			(202.60 – 204.60) – 30% calcite-quartz veins up to 20 cm with some brecciation; also brecciation at (207.90 – 208.40)					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-6 SHEET 4 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
63.95	410.30		WAVY BANDED LIMESTONE CONT'D (209.40 - 215.00) - Large light grey bands to 80 cm with very fine dark grey bands (1 mm thick); 2% calcite-quartz veins to 3 cm up to 3 cm thick at various angles; excellent core; 99% recovery; 25-45° banding; rare fine grained pyrite with calcite. (215.00 - 227.00) - Relatively thin light grey bands, mainly less than 1 cm with very fine dark grey bands averaging 1 mm in thickness; rare fine grained pyrite with calcite. Good core in pieces averaging 10 cm; core breaks parallel to banding; 5% calcite-quartz veining up to 10 cm thick; folded at (219.80 - 220.07); banding at 35-55° except near fold where banding ranges from 0 to 70°. (227.00 - 236.30) - Medium sized light grey bands ranging from 1 to 7 cm with strong foliation structure, dark grey bands averaging 3 mm; fairly uniform banding averaging 25°; excellent core in pieces to 50 cm; some core breaks across bedding; 2% calcite-quartz veining to 3 cm thick; rare fine pyrite with calcite nodules to 2 cm. This section the same as (178.00 - 209.40). (236.30 - 248.80) As (215.00 - 227.00) above; banding averages 40°; some folding with fold axes at 238.80 and 239.65; 3% calcite quartz veining; core breaks along smooth bedding plane slips in pieces averaging 10 cm; broken at (243.20 - 245.60); rare fine pyrite-calcite nodule to 1 cm size.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-6 SHEET 5 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
6345	410.30		WAVY BANDED LIMESTONE (CONT'D (248.30 – 253.65) – Thicker banding as (227.00 – 236.30) strong boudinage structure; excellent core in pieces to 50cm; 25 – 0° banding; 2% calcite-quartz veining to 2cm thick. (253.65 – 304.00) – Finer banding as (215.00 – 227.00) preceding; fair core in 10 cm pieces; banding at ∅ – 65°; 1% calcite-quartz veining to 3cm thick; rare pyrite. Banding: (253.65 – 262.00), 0 – 15°; (262.00 – 267.00) 25 – 40°; (267.00 – 278.00) 70 – 0° with folding at 271.00, and (272.00 – 273.50). Thicker light grey bands to 20cm at (266.80 to 270.70); slightly thicker banding at (268.00 – 273.60); core recovery, 99%. (264.3 – 279.5) – 5% calcite-quartz veining to 4cm. (279.5 – 304.00) – 2% calcite-quartz veining to 2cm. (278.00 – 304.00) – Good core in pieces averaging 20 cm; core breaks mainly along bedding planes but there are also some which cut across bedding. (279.5 – 291.5) occasional pyrite-calcite nodule to 1cm size. Banding: 15° – 25° @ (279.00 – 304.00).					
			(304.00 – 306.55) Large light grey bands to 5cm thick, excellent core.					
			(306.55 – 320.70) Thicker banding as (227.00 – 236.00), light grey bands average about 1 cm thick and range up to 3cm; dark grey bands average about 2mm but range up to 3cm; many fine short discontinuous white calcite veins cut dark bands nearly at right angles locally causing striped appearance; other calcite-quartz veins parallel or cut across bedding; minor fine pyrite is present with calcite veining locally; total about 5% calcite-quartz veining. Banding: (306.55 – 313.00) – 40 – 35° (313.00 – 320.70) – 30°					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
63.95	410.30		WAKY BAMFORD LIMESTONE (CONT'D)					
			(306.55 - 320.70) Cont'd. Large quartz - calcite vein @ (314.15 - 314.30) parallel to banding. 320.30 - Tight fold over 20 cm.					
			(320.70 - 334.00) Thinner banding as (215.00 - 227.00); banding: 25° @ 320.70, 0 - 5° @ (322.00 - 327.00), 0 - 40° @ (327.00 - 334.00; good core but with many breaks along smooth bedding planes; 3 cm band of brecciation along bedding seam (325.30 - 326.70); approximately 1% fine calcite veining; rare pyrite-calcite nodule to ½ cm size.					
			(334.00 - 362.41) Thicker bands with a higher percentage of dark grey bands, similar to (227.00 - 236.00); 5% fine discontinuous calcite veins cutting dark bands mainly to form weak striped appearance; sharp fold at 341.00 over 20 cm with 70-60° limbs; rare pyrite calcite nodules. Banding: 35° @ 334.00, 45° @ 336.50, 60° @ 337.00, 70° @ 341.00, 45° @ 341.30. Generally good core in pieces averaging 10 cm, shattered at (334.60 - 339.15).					
			(342.00 - 344.00) 15% - calcite-quartz veining with veins to 15 cm; this section contains several thick light grey bands. (348.00 - 354.00) - 15% calcite-quartz veining as above. Banding: 0 - 40° at (342.00 - 358.50) with minor folding and strong boudinage structure; 30 - 60° @ (358.50 - 362.46)					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-6 SHEET 7 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
63.95	410.30		WAVY BANDED LIMESTONE CONT'D					
			(362.41 - 370.80) - Banding becomes thinner, otherwise similar to the preceding; banding @ 40-50° @ (362.41 - 369.5); strong boudinage structure @ (367.39 - 369.70); possible fold axis at 369.60 with 60° limbs; good core in 10 cm pieces; rare pyrite-calcite nodule to 5 mm.					
			(370.80 - 375.00) - Thicker dark grey bands (to 1 cm) with numerous short discontinuous calcite veinlets cutting darker bands at right angles (striped appearance); 50°-60° banding; core breaks easily along smooth partings parallel to banding.					
			(375.00 - 377.20) - very thin (2 mm) dark grey bands; 1 cm light grey bands; 50-65° banding; 1% calcite veining.					
			(377.20 - 394.40) Dark grey bands thicker (to 1 cm), and comprise about 40% of total; light grey bands average about 1 cm; 40-55° banding; folded at (383.20 - 384.00) with limbs in same direction; generally good core in pieces to 50 cm; breaks along smooth bedding plane partings; banding @ 40°-25° at (396.00 - 394.00); rare pyrite calcite nodule; 2% calcite-quartz veining.					
			(394.00 - 410.30) - much thicker bands with dark grey bands to 4 cm thick and light grey bands strongly boudinaged and averaging 1 cm.; large light grey band at (396.30 - 396.60); banding 40-60°; 3% calcite veining; excellent core in pieces to 30 cm; breaks along bedding plane partings; percentage of dark grey bands about 50%; banding (395.00 - 410.30): 40-30°; excellent core; breaks in 15 cm pieces along smooth partings parallel to bedding.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-6 SHEET 8 OF

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
410.30	439.30		Calcareous Shale Gradational with previous unit as dark bands increase to over 50% ; becomes progressively more finely laminated and consists of many fine dark laminations with fewer and thicker (5 mm) light grey bands; good core but splits easily along smooth planes parallel to laminations; banding uniform gradually increasing core angles. 45° @ 410.00, 49° @ 422.00, 55° @ 423.00, 70° @ 426.00; approximately 2% calcite veining to 2 cm thick mainly cutting across beds; rare pyrite associated with calcite; (421.20 – 423.80) – Light colored bands predominant with some boudinage structure. (425.90 – 439.58) – more finely laminated, slightly darker grey; increase in fine grained pyrite to approximately 1%; pyrite occurs as fine veinlets, 1 mm thick (or thinner) associated with calcite; laminations are at 70° (uniform). (431.10 – 434.60) laminations not as sharp as previously; some folding present; approximately 5% fine calcite veins at 45–70° cutting across laminations. (434.60 – 437.58). Sharp fine laminations at 75–80°; good core but breaks into pieces as small as 5 mm from (436.95 – 437.58); breaks occur along smooth slip planes parallel to banding; slip planes may contain minor gypsum and micaceous minerals. (437.58 – 439.30) – Brecciated and cut by 40% white calcite veins at various angles with soft shattered core at (437.68 – 439.10); some 0° banding at (438.10 – 439.30) with 80° banding at 439.30 85% core recovery.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-6

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT ZINC	LEAD	BARIUM	BARITE
439.30	439.80		MINERALIZED CALCAREOUS SHALE Medium to dark grey, silicified with remnant laminations at 50-75°. Contains approximately 10% fine grained brown to honey colored sphalerite as single grains and masses of fine grains; less than 1% galena as fine 1mm or less veinlets; traces of pyrite; 15% white calcite-quartz veins cut various angles; core broken in peices from 2-5cm; 95% recovery.	42873	439.30	439.80	0.50	8.80	0.66	0.11	0.19
439.80	441.70		MINERALIZED SILICA ZONE Light to dark grey silica matrix; brecciated and cut by a branching network of fine calcite and calcite-quartz veins ranging from less than 1 to 3mm in width; contains good grade fine brown and honey colored sphalerite from (439.80 - 440.40) with minor galena and pyrite as blebs to 3mm and as fine veinlets; weakly mineralized with disseminated very fine grained brown to honey colored sphalerite from (440.40 - 441.65'); good core in pieces to 40cm; 95% recovery.	42874	439.80	440.40	0.60	8.65	0.14	0.06	0.10
				42875	440.40	441.70	1.30	0.20	0.02	0.05	0.08
				Average	439.30	440.40	1.10	8.72	0.38	0.08	0.14
				Average	439.30	441.70	2.40	4.10	0.18	0.07	0.11
			(441.65' - 441.70) Fault with 2cm of gouge followed by 5cm of fractured, leached, pitted silicified limestone with 2% pyrite mineralization.								
441.70	448.06		CRYPTOGRAINED LIMESTONE Light grey to white, contains 5% brown mudstone clasts, massive, fair core but tends to break along fine fractures at various angles filled with calcite; 95% core recovery.								
			(441.70 - 444.45) Altered to a medium grey color, brecciated and cut by 10% mainly fine calcite-veins at various angles; contains traces of galena and brown sphalerite with approximately 1% pyrite as fine discontinuous veins and disseminated grains.	42876	441.70	443.00	1.30	0.12	0.04	0.12	0.20
				42877	443.00	444.45	1.45	0.11	0.01	0.10	0.17

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-6

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
441.70	448.06		CRYPTOCRYSTALLINE LIMESTONE (CONT'D). (444.00 - 444.45) - Leached, pitted, vuggy core with minor pyrite; some soft brown mudstone.					
			End of Hole.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-7

PROPERTY	TP OR AREA	AZIMUTH	DATE STARTED
MEL	NTS 95D-6; YUKON	273° (GRID WEST)	MAR 17, 1987
PROJECT	**LOT & CONC.**	**DIP**	**DATE COMPLETED**
6250	SECTION 97+90N	-81 1/2°	MAR 21, 1987
CLAIM NO.	**CO-ORDINATES.**	**LENGTH**	**DRILLED BY**
JEAN-1	9787.1 N	409.96	D.J. DRILLING LTD.
GRID NO.		**COLLAR ELEV.**	**LOGGED BY**
	10229.9 E	902.3	D.C. MILLER

CORRECTED DIP TESTS

DEPTH	DIP	AZIMUTH
144	-80	285°
305	-74 3/4°	270°
407	-73°	267°

~~LOCATION SKETCH OF HOLE~~

(TESTS: SPERRY SUN SINGLE SHOT CORRECTED 30°)

METRES FROM	METRES TO	SECTION
0	9.14	
9.14	353.50	

B.Q CORE

DESCRIPTION

OBJECTIVES:- TEST MEL DEPOSIT AT DEPTH.

CASING, NO CORE

WAVY BANDED LIMESTONE

Alternating light and dark grey bands; light grey bands up to 4cm and average 1 cm thick; dark grey bands up to 2 cm and average 3 mm thick; local strong boudinage structure; minor calcite-quartz veining; rare pyrite calcite nodule or veinlet to 2cm size.

(9.14 - 24.62) Banding mainly 30-40°, folded at 24.50 with 30° limbs; minor rusty discolored core; core tends to be blocky and broken with breaks parallel to bedding; approximately 90% core recovery.

(24.62 - 45.11) Variable folded banding: 0° @ 24.62, 70° @ 25.20, 0° @ 25.80, 30° @ 27.00, 0° @ 29.00, 30° @ 31.00, 50-85° @ (32.00 - 40.00), 0-85° @ (41.00 - 45.11); core recovery generally about 90%.

(29.60 - 32.61) - Large light grey band.

(32.61 - 42.70) - Strong boudinage structure with broken and blocky core; brecciated at (38.10 - 38.20); shattered core at (42.98 - 44.20) with 50% recovery.

SAMPLE NO.	FROM	TO	LENGTH

ASSAYS

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
9.14	353.50		WAVY BANDED LIMESTONE cont'd (45.11 - 88.50) Similar to preceding; blocky and broken core; uniform banding at 50-70; (45.11 - 57.25) - core broken into pieces averaging 2cm; (57.25 - 71.60) - better core with pieces averaging 5cm.; breaks along bedding planes; (65.90 - 71.63) larger light grey bands averaging 4cm; rare pyrite calcite nodule; 2% calcite-quartz veining; approximately 85% core recovery. Banding: 50-65° @ (72.50 - 79.00), 30-40° @ (79.00 - 88.50) (71.60 - 81.38) - Shattered core in pieces averaging 3cm. (81.38 - 88.50) Fair core associated with thick light grey bands (10cm). (87.17 - 87.48) Crushed core, 30% recovery, possible water course, drillers report increase in water in this section.					
			(88.50 - 121.30) Strong boudinage structure; light grey bands gradually decrease in width from 2cm to 1cm; dark grey bands up to 5mm in width; fair core, 99% recovery; rare calcite-pyrite nodule to nodule 1cm. Banding: 40-60° @ (88.50 - 96.70), 0-15° @ (96.70 - 110.00), 0-40° @ (110.00 - 115.00), 0-20° @ (115.00 - 119.00), 40-70 @ (119.00 - 121.30); 3% calcite-quartz veining, mainly at (110.00 - 121.30) Excellent core @ (98.00 - 121.30) in pieces to 50 cm.					
			(121.30 - 129.20) Large light grey bands to 4cm; dark grey bands to 1cm; 5% white calcite-quartz veining at various angles; generally excellent core; banding @ 15-45°; broken core @ (127.40 - 128.02). (129.20 - 178.00) Light grey bands 2-1cm; dark grey bands average 3mm; 5% calcite-quartz veining (up to 12cm); strong boudinage structure; good core; 99% recovery; rare calcite-pyrite nodule to 1cm; occasional light grey band to 5cm thick. Banding: 45-35° @ (129.20 - 132.70) 0-20° @ (132.70 - 136.00) 35-40° @ (136.00 - 159.00) 40-50° @ (159.00 - 162.55) 25° @ (162.55 - 163.30) 35-50° @ (163.30 - 178.00) Excellent core @ (142.5 - 178.00) pieces to 50cm some core breaks across bedding.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-7

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
9.14	353.50		WAVY BANDED LIMESTONE CONT'D					
			(178.60 - 184.20) - Large light grey bands to 4cm with very fine (less than 1 mm) dark grey bands; 50 - 55° banding; excellent core; 2% calcite veining to 2 cm width.					
			(184.20 - 190.80) Light grey bands to 2cm, dark grey bands to 2mm; 30° banding; excellent core. 4% calcite veining and occasional pyrite-calcite nodule to 2cm; weak boudinage structure					
			(190.80 - 191.80) Large light grey bands, very fine dark grey bands (as 178.60 - 184.20) 30° banding @ 190.00; excellent core; 3% calcite-quartz veins to 3 cm.					
			(191.80 - 197.40) - strong boudinage structure, 10 - 25° banding; excellent core; several small pyrite-calcite nodules (less than 1cm) 3% fine calcite veins (less than 5 mm).					
			(197.40 - 199.10) - Large light grey bands, very thin dark grey bands (less than 1 mm); excellent core; minor fine pyrite veins (less than 1mm thick, less than 1% total); 20 - 30° banding; minor calcite veins as preceding.					
			(199.10 - 263.50) Light grey bands 1 - 2 cm; grey bands 1 - 4 mm; banding 30 - 45°; good core in pieces averaging 10cm with breaks mainly along bedding planes but also across beds; moderate to weak boudinage structure; occasional fine pyrite-calcite veins and nodules (less than 1 cm); occasional larger calcite-quartz vein to 3cm thick; both cutting and parallel to banding.					
			Blocky and broken core at (224.50 - 225.60), (229.20 - 229.92) (232.50 - 232.87) & (234.30 - 235.70).					
			Drillers report increase in water near 214.00.					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
9.14	353.50		WAVY BANDED LIMESTONE CONT'D (199.10 - 263.50) CONT'D					
			40% white calcite - quartz veins up to 20 cm thick at (230.30 - 235.70 associated with folding. Banding: 10 - 30° @ (220.70 - 227.30), 0 - 30° @ (227.80 - 236.40), 30 - 50° @ (236.40 - 240.50), 0 - 30° at (240.50 - 256.20).					
			Thick light gray bands (5cm ±) @ (237.00 - 239.00) & (240.65 - 242.40).					
			Fold axis @ 252.30 with 30° limbs.					
			(263.50 - 271.00) Increase in number and thickness of dark grey bands - up to 2cm thick, light grey bands also up to 2cm thick; banding @ 40 - 70°; broken and blocky core with breaks on smooth bedding planes; 2% calcite veinlets to 1cm thick.					
			(266.70 - 269.00) - very fine (1mm) dark grey bands.					
			(271.00 - 280.00) - light grey bands average 1 cm; dark grey 3mm; 50 - 25° banding; good core; moderate boudinage structure rare pyrite - calcite nodule.					
			(280.00 - 290.30) Similar to preceding but broken and blocky core with folding and 20% calcite - quartz veins to 20 cm; some brecciation with local strong boudinage structure; banding @ 0 - 60°.					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
9.14	353.50		WAVY BANDED LIMESTONE CONT'D.					
			(290.30 - 312.00) Light grey bands average 1cm, dark grey bands average 4mm; strong striped appearance with short discontinuous white calcite veinlets 2mm thick cutting dark grey beds at right angles; good core in pieces averaging 10 cm; breaks occur along smooth bedding planes; occasional large light grey band to 30 cm; occasional pyrite-calcite nodule to 1cm; banding 40-50° @ (290.00 - 293.50) 0-15° @ (293.50 - 294.20); 30-70° @ (294.20 - 312.00).					
			4% calcite-quartz veins to 5cm thick.					
			(312.00 - 353.50) Bands become thinner with light grey bands averaging 5mm and dark grey bands averaging 3mm, blocky core in pieces less than 10cm breaking along bedding planes; 99% core recovery, 3% calcite-quartz veins to 12cm; very rare calcite-pyrite nodule to 5mm.					
			Banding: Folded at 0-30° @ (312.00 - 313.00), uniform at (313.00 - 325.90) @ 40-45°, mainly at 50-70° @ (325.90 - 332.60) but with several tight folds; 45° @ 332.60 - 336.20), 0-50° with folding at (336.20 - 353.50).					
			(332.00 - 345.0) Thicker bands (1cm) with dark to light colored ratio 1:1. Good core @ (340.30 - 353.50) with pieces averaging 20 cm.					

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-7 SHEET 10 OF 12

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
353.50	401.05		CALCAREOUS SHALE					
			(353.50 - 355.00) Finely laminated light and dark bands at 0-65°; folded; percent of dark bands about 50%.					
			(355.00 - 356.55) Thick light grey limestone band.					
			(356.55 - 375.82) Dark bands average about 5mm in width and range up to 2cm; light bands about the same width; approximately 60% dark bands; weak to strong brecciation structure; occasional pyrite-calcite nodule; 3% calcite-quartz veins to 4cm wide; generally good core in pieces to 50 cm long.					
			Broken core at (362.50 - 364.20) associated with 10° fractures and brecciation.					
			Banding uniform @ 20-30° @ (356.55 - 361.00), 0-40° @ (361.00 - 369.00), 25-35° @ (369.00 - 375.82).					
			(375.82 - 397.50) Dark bands average 2cm, light bands less than 1cm, uniform. 35-55° banding; approximately 4% pyrite as blobs to 5mm associated with calcite and as fine 1mm or less veins parallel to banding; 4% calcite veins to 5cm at various angles; fair core but tends to break along bedding plane slips; approximately 80% dark laminations.					

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS PERCENT ZINC	LEAD	BARIUM	BARITE
353.50	401.05		CALCAREOUS SHALE CONT'D								
			(387.80 - 390.00) Recrystallized with minor silicification; contains minor brown and honey colored sphalerite (less 1%) associated with pyrite; sulphide grains are smaller than 3 mm; 90% core recovery.	42878	387.80	390.00	1.20	0.05	0.08	0.06	
			(390.00 - 401.05) Finely laminated 70% dark bands; banding 50° @ 390.00, 40° @ 393.00, 30° @ 395, 25° @ 398.00, folded at 400.85 @ 0 -25°; generally excellent core, but is broken over 5 cm at 401.00 associated with 2 faint fractures at 60°; approximately 1% fine pyrite (less than 1 mm) as fine stringers parallel to bedding and also cross-cutting bedding.								
401.05	403.10		MINERALIZED ZONE								
			Consists of approximately 12% brown and honey colored sphalerite in grains ranging from less than 1 mm to over 1 cm associated with about 2% fine grained galena; minor pyrite in grains up to 5 mm is also present; matrix is calcareous shale and silicified calcareous shale; 99% core recovery, good core in pieces to 50 cm.								
			(401.05 - 402.00) - 50% quartz alteration with some weakly altered shale; banding at 0 - 30°; fair mineralization; core breaks at 10 - 30°.	42879	401.05	402.00	0.95	2.44	0.84	0.35	
			(402.00 - 403.10) - 30% quartz alteration; faint remnant banding @ 0 - 35°; good grade mineralization; contact at 403.10 sharp along 45° fracture; core breaks at 30 - 80°.	42880	402.00	403.10	1.10	13.15	2.23	0.10	
				Average	401.05	403.10	2.05	8.19	1.59	0.22	0.37

NOVAMIN RESOURCES INC. DRILL LOG HOLE NO. 87-7

SHEET 8 OF 8

METRES FROM	METRES TO	SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS
403.10	409.96		CRYPTOCRAINED LIMESTONE Pale grey, white, nearly massive, contains about 5% brown irregular shaped mudstone clasts which carry about 2% fine grained pyrite; excellent core in pieces to 50 cm, core breaks at 70-90°. (403.10 - 403.25) - large brown mudstone clast. END OF HOLE.					