



42L06NE0011 63.4752 O'SULLIVAN LAKE

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Deanna
424/6NE

REPORT
on
THE O'SULLIVAN LAKE GOLD PROPERTY
of
KOWKASH GOLD CORP.
THUNDER BAY MINING DIVISION
ONTARIO

OM 86-190

November 9, 1986

James Zimmerman P.Eng.



SUMMARY

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LOCATION MAP. O'SULLIVAN PROSPECT.

87°00' W.



O'SULLIVAN
LAKE
PROSPECT

CANADIAN NATIONAL RAILWAYS

643

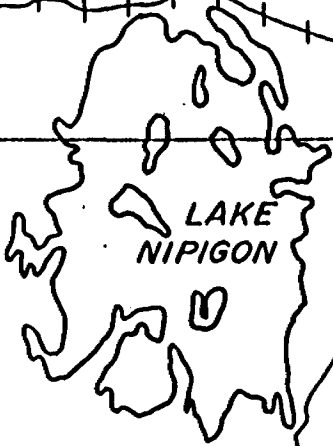
NAKINA

50° 00' N.

584

GERALDTON

11



LAKE
NIPIGON

NIPIGON

11

17

HEMLO

LAKE
SUPERIOR

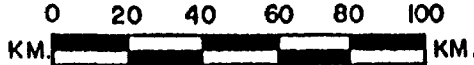
THUNDER
BAY

11
17

CANADA
U.S.A.

61

SCALE: 1:2,000,000



J. R. ZIMMERMAN

ONTARIO
REGISTERED

Nov. 10, 1966. J. R. Zimmerman

SUMMARY

The Kowkash Gold Corp. property is a 38 mineral claim gold prospect in the O'Sullivan Lake area of Ontario. It is located on the relatively unexplored north limb of an Archean Greenstone complex. Gold production from this north limb has been confined to production from the Consolidated Louanna property (formerly Lake Osu Mines Ltd.) located immediately west of the Kowkash property. The south limb of this Greenstone Belt has produced 3,770,000 ounces of gold from such camps as Geraldton and Beardmore.

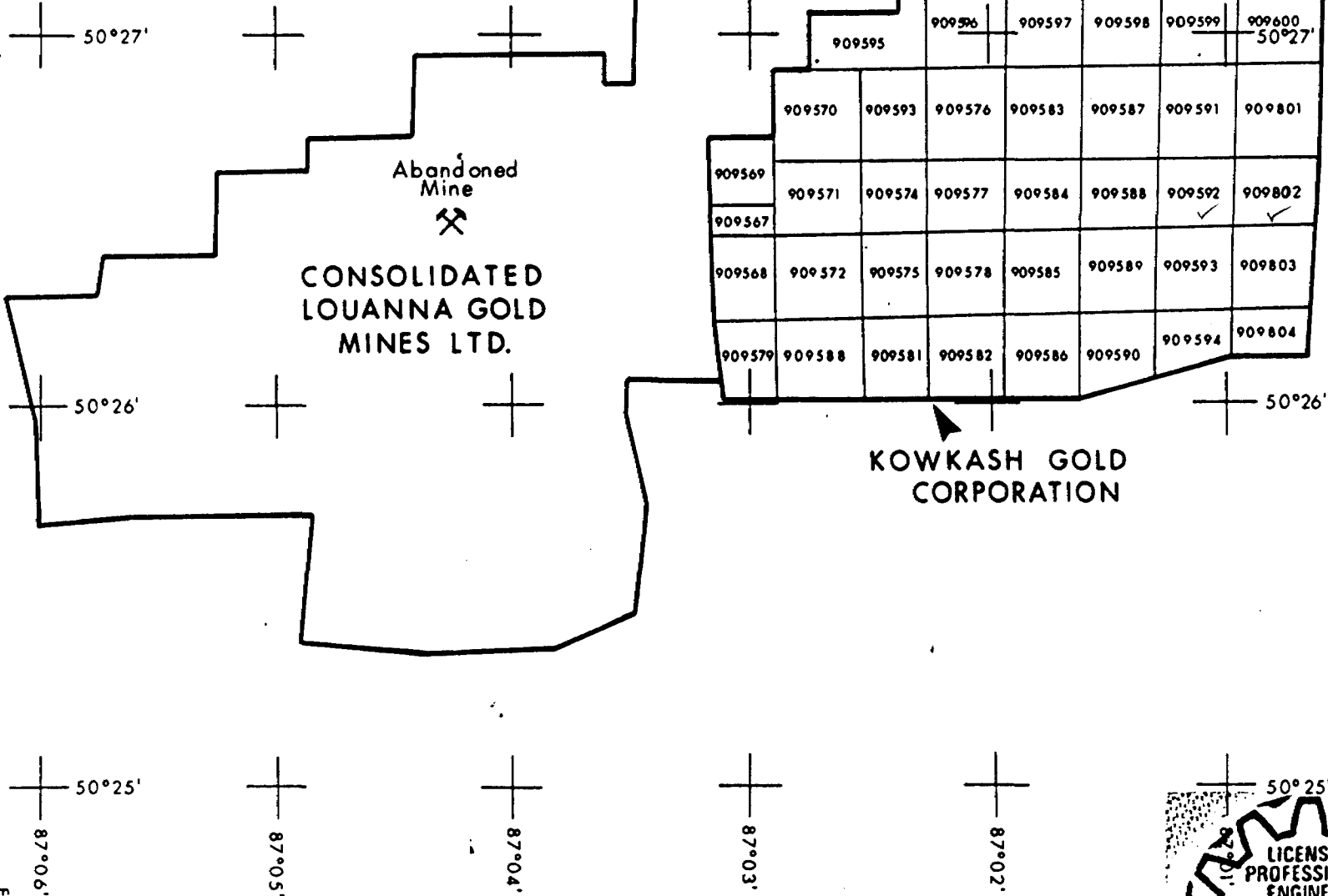
Previous drilling on the Kowkash property intersected economically significant gold values in five of the twenty-one holes drilled, four of which were in the "gold discovery" zone and the other in the "copper zone". Visible gold was noted in four of these five holes. The main gold bearing features in the "gold discovery" zone appear to be structurally related to a diabase dyke.

22-28 A 2000 foot diamond drill program involving seven new holes, whose purpose was to test this hypothesis, has just been completed.

The results of this drilling program have extended the interesting gold values 200 feet to the southeast of Hole No. 21.

A phased exploration program designed to further test the "gold discovery" zone at depth and along strike has been recommended. This will include a detailed high sensitivity ground magnetometer survey with a structural interpretation. It is proposed that further diamond drilling be carried out in two phases to extend the present zones of interest and to test new areas as may result from the geophysical and geological studies. The overall budget for this recommended program has been estimated to be \$ 140,000.

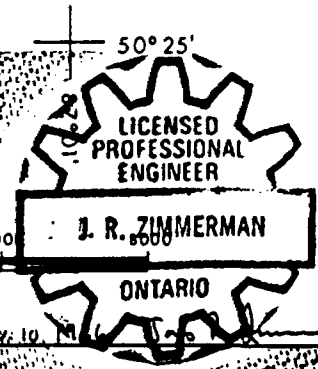
N.T.S. 4216



KOWKASH GOLD CORPORATION
 PLAN OF CLAIMS

FIGURE 2

THUNDER BAY MINING DIVISION, G-632



INTRODUCTION

A 38 claim gold prospect in the O'Sullivan Lake area in the Thunder Bay Mining Division of Ontario has been acquired by Kowkash Gold Corp. Its location is shown on Figure 1. On two previous occasions this property was drilled under the supervision of W.D. Sutherland, B.A.Sc. and yielded gold values of interest including the initial hole in the "gold discovery" zone which yielded 7.99 ounces of gold per ton across 0.3 feet and a 20 foot sludge sample in the last of these holes that assayed 0.71 ounces of gold per ton. The property adjoins to the east the Consolidated Louanna Gold Mine (formerly Lake Osu Gold Mines) reported to have proven gold reserves of 113,129 tons grading 0.352 ounces per ton. Some small scale production from these reserves was carried out in 1983 and 1984.

Kowkash Gold Mines raised some \$114,000 by way of a Seed Money Memorandum and expended \$85,575 on diamond drilling the extension of the "gold discovery" zone along the presumed strike of a diabase dyke. In all seven holes were put down resulting in encouraging results in four of these holes.

As a result of the positive results from the recent drilling program a further program of exploration has been recommended. This program consists of 10 line miles of high sensitivity ground magnetometer surveying, and a structural study of the magnetics in relation to presently known geology to be followed by 3000 feet (Phase II- 1000 feet, Phase-III 2000 feet) of diamond drilling for a total estimated cost of \$140,000.

4

PROPERTY DESCRIPTION

The O' Sullivan Lake property recently acquired by Kowkash Gold Corp. is located in the Thunder Bay Mining Division in the Province of Ontario. It consists of 38 unpatented mining claims which may be more particularly described as follows :

TB 909567 to 909600 inclusive (33 claims)
TB 909801 to 909804 inclusive (5 claims)

The total area is about 1,520 acres, of which some 40% underlies O'Sullivan Lake. The claims were recorded on May 8, 1986 and sufficient assessment work has been performed in the course of the recent drilling program to maintain the claims in good standing until May 8, 1988. The claim group is shown on Figure 2.

LOCATION AND ACCESSIBILITY

The property is situated at O'Sullivan Lake including the eastern end of the Osulake Peninsula and extending about one mile east of the northeastern shoreline of the lake. The claims are about 80 kilometers (50 miles) north of the town of Geraldton and 210 kilometers (130 miles) N20W of the Hemlo gold camp.

Access to the property is by paved road (Highway 584) from Geraldton to Nakina, thence west by paved road to Anoland for a total of 74 kilometers (46 miles) and then northerly for 35 kilometers (22 miles) by an all weather gravel road to O'Sullivan Lake. A short boat or barge trip takes one to the property itself. The claims may also be reached by float or ski plane .

GEOLOGY

The property lies within a relatively unexplored Archean Greenstone belt within the Superior Geological Domain. The belt parallels and is north of the Canadian National Railway line between Nakina and Armstrong, Ontario. It then swings southerly to Beardmore near Lake Nipigon. From Beardmore it extends easterly along Highway 11 to well beyond Longlac. This southern limb of the Greenstone Belt encompasses several former producing gold mines including the Leitch, MacLeod-Cockshutt, Hardrock, Mosher and Little Longlac. Gold production from this southern limb has been 3,770,000 ounces and recent activity has sharply increased as a result of the New Metalore discovery near Beardmore.

The distribution of the Greenstone Belt is shown on Figure 3, an excerpt from Map 2440 of the Ontario Geological Survey.

The geology of the O'Sullivan Lake area was mapped by W.W. Moorhouse in 1947 and 1948. His map, number 1955-2 of the Ontario Department of Mines, shows the outcrop geology of the claim group on a scale of 1 inch equals 1000 feet. Outcrops on the property are sparse, about 8 per cent of the total area, the remainder being covered by spruce swamp and lakes. The rock types displayed by the outcrops include diorites, pillow lavas, granite, porphyry and diabase.

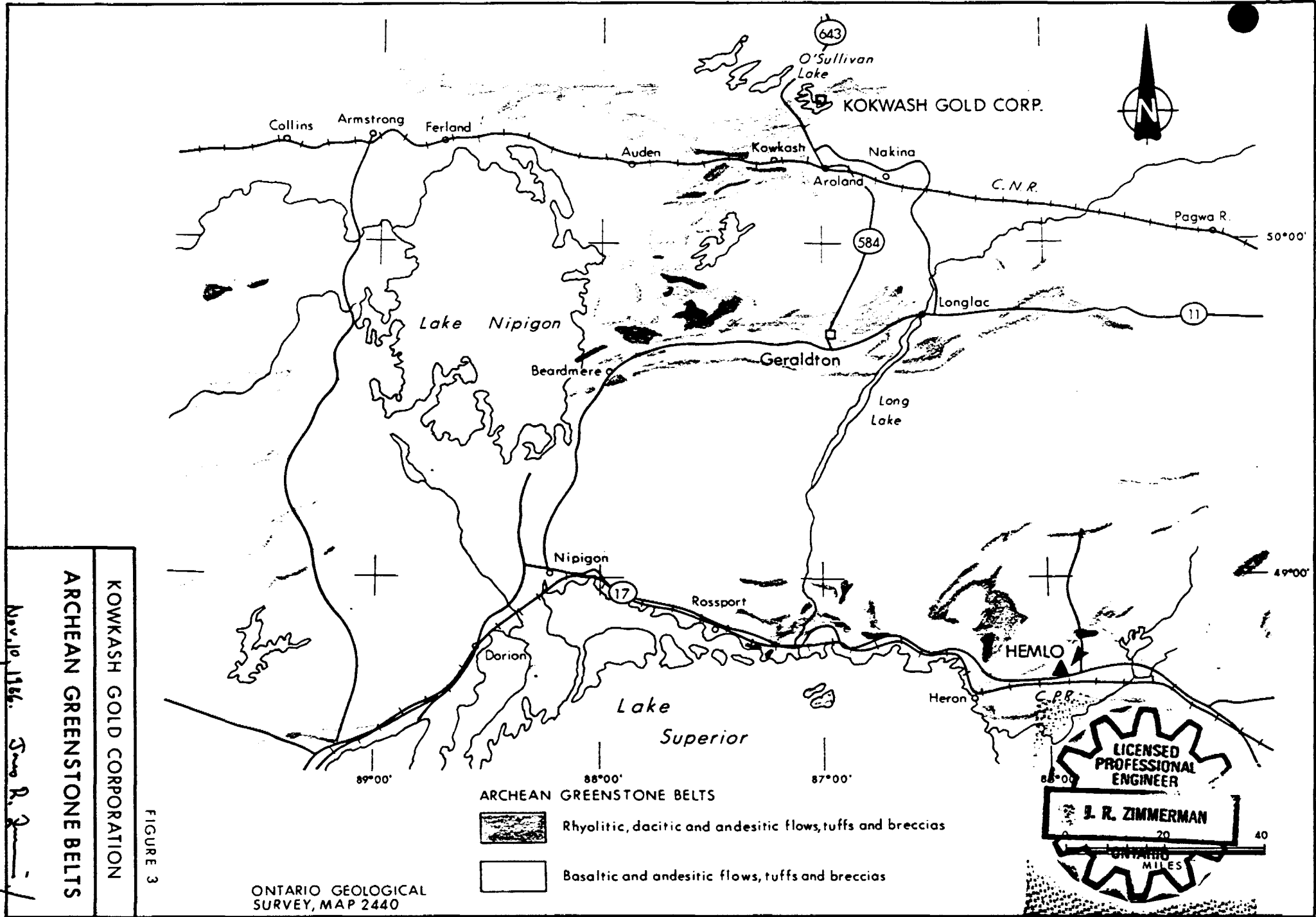
Structurally the claim group is bounded to the north west and south east by two major northeasterly trending faults and is bisected about midpoint by a strong north-south fault.

Moorhouse's geological map covers an area of 60 square miles. Seven of the eleven sulphide occurrences shown on the map lie within the 1,520 acre Kowkash claim group.

HISTORY

General

Activity around O'Sullivan Lake dates back to the late 1920s when a copper showing near Pelangio Point and a gold showing on the Cryderman Peninsula were discovered. In 1935 the gold showing on OsuLake Peninsula was staked, subsequently explored, drilled and developed by underground workings leading to small scale production in 1983 and 1984. As a result of this discovery considerable claim staking and exploration took place from 1945 to 1948 with sporadic reactivation of the area in the years since. As a result of restaking, name changes and share consolidation, the discovery property is now controlled by Consolidated Louanna Gold Mines Ltd. In 1982 Cons. Louanna reported reserves of 113,129 tons grading 0.352 ounces of gold per ton. The level of production by Cons. Louanna in 1983 and 1984 is not known but is understood to have been small scale; this property has been inactive since that time.



Nov 10, 1986. Steve R. Zimmerman

KOWKASH GOLD CORPORATION
ARCHEAN GREENSTONE BELTS

FIGURE 3

ONTARIO GEOLOGICAL SURVEY, MAP 2440

ARCHEAN GREENSTONE BELTS

- Rhyolitic, dacitic and andesitic flows, tuffs and breccias
- Basaltic and andesitic flows, tuffs and breccias

LICENSED PROFESSIONAL ENGINEER
J. R. ZIMMERMAN
 20 40
 MILES

Other properties in the vicinity of the Kowkash claims that are noted in the Moorehouse report include the Chimo group to the north where a sulphide showing reported some gold values, the Trans-American property adjacent and to the north where sulphides are associated with small quartz lenses - it is not known if any gold was found in the 1946 drilling, the Ovensull property to the southeast where visible gold was noted in association with a sheared quartz porphyry dyke and the Hurd-Demetrieff group where gold values were found associated with a porphyry dyke. The relative locations of these showings are shown on Figure 4. Other occurrences of mineralization were noted by Moorehouse but more remote from the Kowkash property.

Kowkash Property

Previous work on this property consisted of the following :

i) 1958 - surface prospecting leading to the discovery of the "copper zone" in September.

ii) 1959 - rock trenching (10,136 cu. ft.), line cutting (20.64 miles), magnetometer survey (12.28 miles), electromagnetic survey (8.22 miles) and diamond drilling (14 holes , 3,707 feet).

iii) 1983 - Airborne magnetic and electromagnetic survey , 400 foot line spacing (82.8 miles - partially overflown) and diamond drilling (7 holes, 2,000 feet).

The rock trenching and geophysical surveys conducted in 1959 were to follow up the copper discovery made the previous year. Drilling targets were thus defined which were tested by 14 diamond drill holes later in the same year. Widespread copper mineralization was found in fractured rhyolite , however values were well below commercial levels. Visible gold was seen in drill hole No. 4 which was intended to test an electromagnetic conductor in an area of extensive spruce swamp. This became known as the "gold discovery" zone. Two subsequent holes, Nos. 5 and 12, were drilled in section with hole No. 4 . Hole No. 5 also returned visible gold . Hole No. 12 had very poor core recovery in the zone of interest and no water returns so there were no sludge samples available . Nothing of importance showed in the core that was recovered from this hole.

The "copper discovery" area was redrilled by five vertical holes in 1983. The 1959 gold intersection in hole No. 10 was not duplicated , possibly indicating a near vertical structure which was missed by the



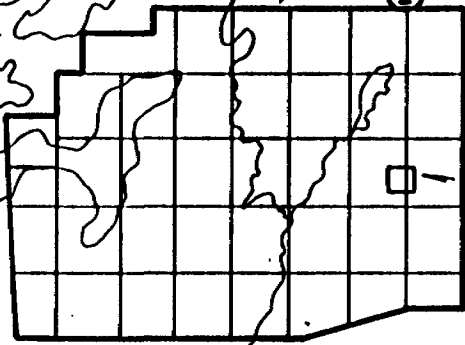
643

KOWKASH GOLD CORPORATION

Kowkash Bay
Cons. Louanna Gold Mines Ltd

O'Brian Pt.

Osulake Pen.



AREA OF
CURRENT
DRILLING

O'SULLIVAN

Farley Island

Cryderman Peninsula

LAKE

Pelangio Point

50°25'

Springpole Island

Harlow Island

- ① CHIMO
- ② TRANS AMERICA
- ③ OVANSULL
- ④ HURD DEMETREIFF

Hanover Lake



643

To Natick

87°05'

LICENSED
PROFESSIONAL
ENGINEER
D. R. ZIMMERMAN
FIGURE 4

KOWKASH GOLD CORPORATION

PLAN OF CLAIMS
& SHOWINGS

NTS 4216

Nov. 10, 1986

The "copper discovery" area was redrilled by five vertical holes in 1983. The 1959 gold intersection in hole No. 10 was not duplicated, possibly indicating a near vertical structure which was missed by the vertical hole pattern. The last hole in the pattern, No. 20, showed visible gold near the bottom of the hole in a narrow vein that ran 3.33 oz. Au/ton over a core length of 0.2 feet. The sludge sample that included the visible gold intersection assayed 0.38 oz. Au/ton over the 20 foot sample width.

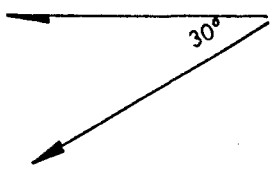
The final drill hole of the 1983 program, No. 21, was drilled as a 100 foot step-out from hole No. 4 in the "gold discovery" area. This hole returned two visible gold intersections. The economically significant gold values from the two drilling programs are tabulated below. A plan showing the location of these holes as well as the drilling carried out in 1986 has been included as Figure 5.

TABLE 1 - Economically significant gold values
1959 and 1983 drilling

Hole No.	Sample	From	To	Width(ft.)	Oz. Au per ton
4	core*	279.2	279.5	0.3	7.99
5	core*	295.5	296.0	0.5	1.06
10	core	238.0	241.3	3.3	0.31
	sludge	200.0	245.0	45.0	0.16
20	core*	189.9	191.1	0.2	3.33
	sludge	180.0	200.0	20.0	0.38
21	core	36.5	39.3	2.8	0.08
	core*	76.4	77.4	1.0	1.26
	sludge	60.0	80.0	20.0	0.71
	core	199.3	199.8	0.5	0.22
	core*	199.8	200.4	0.6	2.04
	sludge	190.0	200.0	20.0	0.14

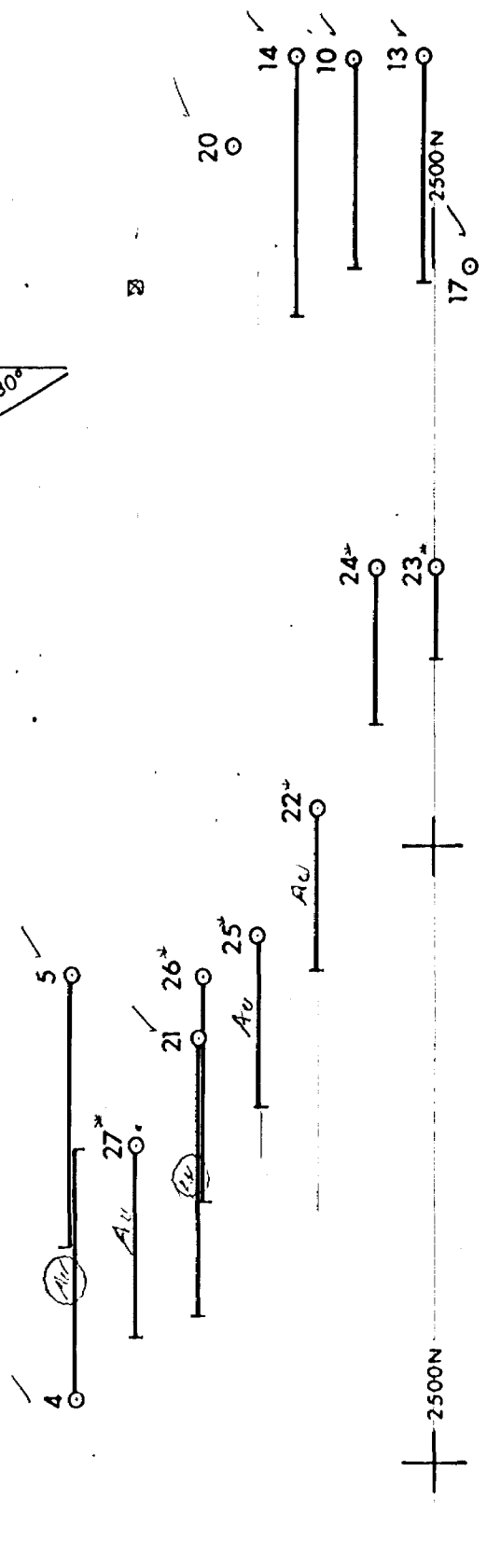
* visible gold in sample

3000N
0+00

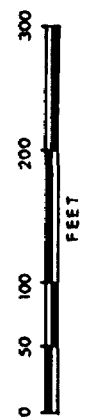


500W

3000N
1000W



0+00
2000N



500W

1000W
2000N



J. R. ZIMMERMAN FIGURE 5

KOWKASH GOLD CORPORATION

PLAN OF DRILLING
1886 D.D.H. No. 28

Nov. 10, 1926. J. R. Zimmerman

DESCRIPTION OF 1986 DRILLING PROGRAM (PHASE I)

A 2000 foot program of diamond drilling in the vicinity of the "gold discovery" area was completed in October of 1986. Seven holes were drilled to test the area immediately adjacent to hole No. 21 in which there were values of 2.04 oz. Au / ton across 0.6 feet in a quartz vein associated with a major diabase dyke.

These holes were spotted along the general trend of the dyke systems in this area (N60W).

Five of the holes (Nos. 22,23,24,25 and 26) were spotted to test the area southeast of the " gold discovery" area and to fill in the gap between the " copper discovery" area and " gold discovery" area , a distance of some 700 feet. This area had not been drilled in the past.

Hole No.27 was spotted midway between Hole No. 21 and Holes 4 and 5, in order to test the continuity of the structures and the mineralization .

Hole No. 28 was spotted to test the area northwest of the "gold discovery" area.

All of the above holes have been plotted in plan (Figure 5) and the sections are included in this report as Appendix A.

TABLE 2 - Economically significant gold values
1986 drilling

Hole No.	Sample	From	To	Width(ft.)	Oz. Au/ton
22	core	122.0	123.4	1.4	0.249 ✓
	sludge	57.0	77.0	20.0	0.042
	sludge	117.0	137.0	20.0	0.051
24	core	103.0	106.0	3.0	0.030
25	core	147.3	148.0	0.7	0.041 *
	core	225.0	227.8	2.8	0.062
	core	233.0	237.0	4.0	0.075 ✓
	sludge	17.0	37.0	20.0	0.048
	sludge	217.0	337.0	20.0	0.031
27	core	197.6	198.0	0.4	0.508
	sludge	No sample , poor water return			.0508

* this interval assayed 2.1% copper

CONCLUSIONS

Drilling in 1986 (Phase I) has reconfirmed the presence of gold associated with intrusive dykes (diabase, lamprophyre and porphyritic) and the area of interest has been extended - 200 feet to the southeast as far as hole No.22 . Hole No. 27 indicates that there is continuity to the gold values for at least 100 feet . The failure of the 1986 holes to intersect and explore the main diabase dyke contact indicates that the dyking is more complex than postulated .

The 1959 ground magnetometer survey done in this area did not succeed in defining the main diabase dyke. A high sensitivity magnetometer survey with precision of 0.5 gammas should be able to isolate the main dyke plus other parallel or cross-cutting dykes associated with it.

The identification of the "dyking" pattern is essential in order to understand the controls of the related gold mineralization found in this complex area.

The gold found to date appears to be related to quartz veining with minor amounts of sulphides. The veins vary from 0.2 feet to 4.0 feet in width with values varying from 0.03 oz. Au / ton to 7.99 oz. Au / ton.

RECOMMENDATIONS

1. High sensitivity magnetometer surveying should be done to cover the area of interest and possible extensions in the "gold discovery" area . The line spacing should be 50 feet with a 25 foot station interval .

2. A Structural interpretation of the area based on the results of the magnetometer survey and the previous drilling information should then be done.

3. A two phased diamond drilling program should follow 1) and 2) . 1000 feet of drilling is recommended for Phase II and, if warranted, 2000 feet for Phase III. Phase III diamond drilling is wholly contingent upon favourable results from Phase II.

The estimated cost of the above recommendations is as follows:

Phase II

1. a) Linecutting 10 miles @ \$250	\$ 2,500
b) Magnetometer Survey 10 miles @ \$300 (Including report)	3,000
c) Travel and Field Expense	3,000
2. Structural Interpretation	3,000
3. Diamond Drilling	
1000 feet @ \$35	\$35,000
Supervision, sampling and assaying	6,000
sub total	\$53,000

Phase III

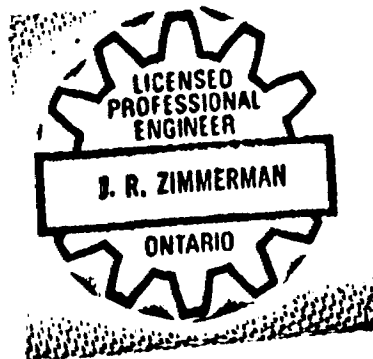
4. Diamond Drilling	
2000 feet @ \$35	\$70,000
Supervision, sampling and assaying	10,000
sub total	\$80,000
5. Contingency	\$ 7,000

TOTAL \$140,000

Respectfully submitted


James R. Zimmerman, P. Eng.

November 10, 1986



STATUTORY DECLARATION

I, JAMES R. ZIMMERMAN . of RR#1 Dunbow Road, DeWinton . Alberta do hereby certivy that :

1. I am a graduate of the University of Toronto, with a Bachelor of Applied Science Degree in Geology (1962).

2. I am a member in good standing of the Association of Professional Engineers of Ontario and an independant engineer who has reviewed the assay certificates and drill logs for the three drilling programs . The four laboratories concerned are known to me and are reputable and reliable, as are the geologists who logged and sampled the drill core.

3. I have practiced my profession since graduation for 24 years.

4. This report is based on close scrutiny of the data resulting:

a) from a review of the drill logs ,sections and assay results resulting from the 1986 diamond drilling program carried out under the direct supervision of W.D.Sutherland, who personally spotted the drill holes on the property.

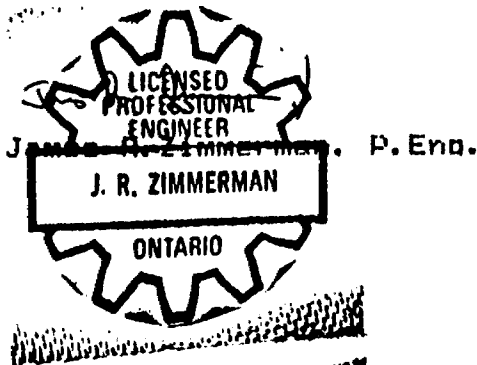
and

b) from previous work results . discussions with W.D.Sutherland , who supervised the previous work in 1959 and 1983 and a general knowledge of the area gained while employed by INCO in 1967 and 1968. I have not personally visited the property.

5. I do not presently own nor do I expect to receive any interest whatsoever, direct or indirect, in the property herein described nor in the securities of Kowkash Gold Corp.

6. I consent to the inclusion of this report in a Prospectus or Statement of Material Facts.

DATED at Calgary , Alberta . this 5th day of January A.D., 1987.



STATUTORY DECLARATION

I, JAMES R. ZIMMERMAN , of RR#1 Dunbow Road, DeWinton , Alberta do hereby certify that :

1. I am a graduate of the University of Toronto, with a Bachelor of Applied Science Degree in Geology (1962).

2. I am a member in good standing of the Association of Professional Engineers of Ontario .

3. I have practiced my profession since graduation for 24 years.

4. This report is based on close scrutiny of the data resulting from previous work , discussions with W.D.Sutherland , who supervised the previous work and a general knowledge of the area gained while employed by INCO in 1967 and 1968. I have not personally visited the property.

5. I do not presently own nor do I expect to receive any interest whatsoever, direct or indirect, in the property herein described nor in the securities of Kowkash Gold Corp.

6. I consent to the inclusion of this report in a Prospectus or Statement of Material Facts.

DATED at Calgary , Alberta , this 10th day of November A.D. , 1986.

James R. Zimmerman

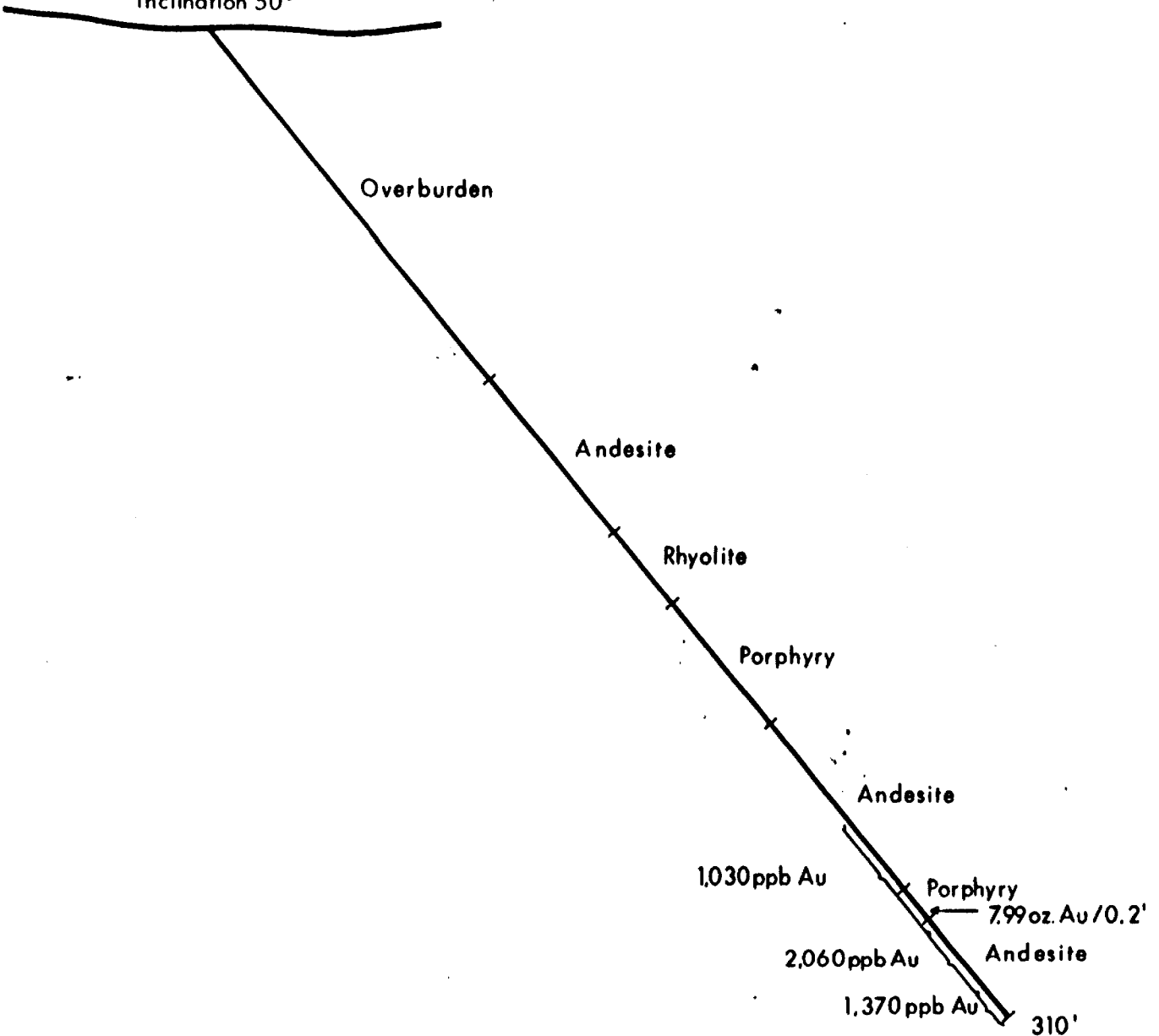
James R. Zimmerman, P.Eng.

LIST OF REFERENCES

1. Moorehouse . W.W.
Geology of the O'Sullivan Lake Area
Ontario Department of Mines
Volume LXIV,Part 4, 1955
2. Sutherland . W.D.
O'Sullivan Lake Prospect
1959 Diamond Drill Program
November , 1959
3. Diamond Drill Logs
1959 Diamond drilling program
(W.D.Sutherland)
4. Assay Certificates (1959)
Sudbury Assay Office
Bell - White Analytical Laboratories Ltd.
5. Diamond Drill Logs
1983 Diamond Drill Program
(W.D.Sutherland)
6. Assay Certificates (1983)
Bell - White Analytical Laboratories Ltd.
TerraMin Research Labs Ltd.
7. Diamond Drill Logs
1986 Diamond Drill Program
(W.J.Sutherland)
8. Assay Certificates (1986)
Bell - White Analytical Laboratories Ltd.
TerraMin Research Labs Ltd.

APPENDIX A
DRILL SECTIONS

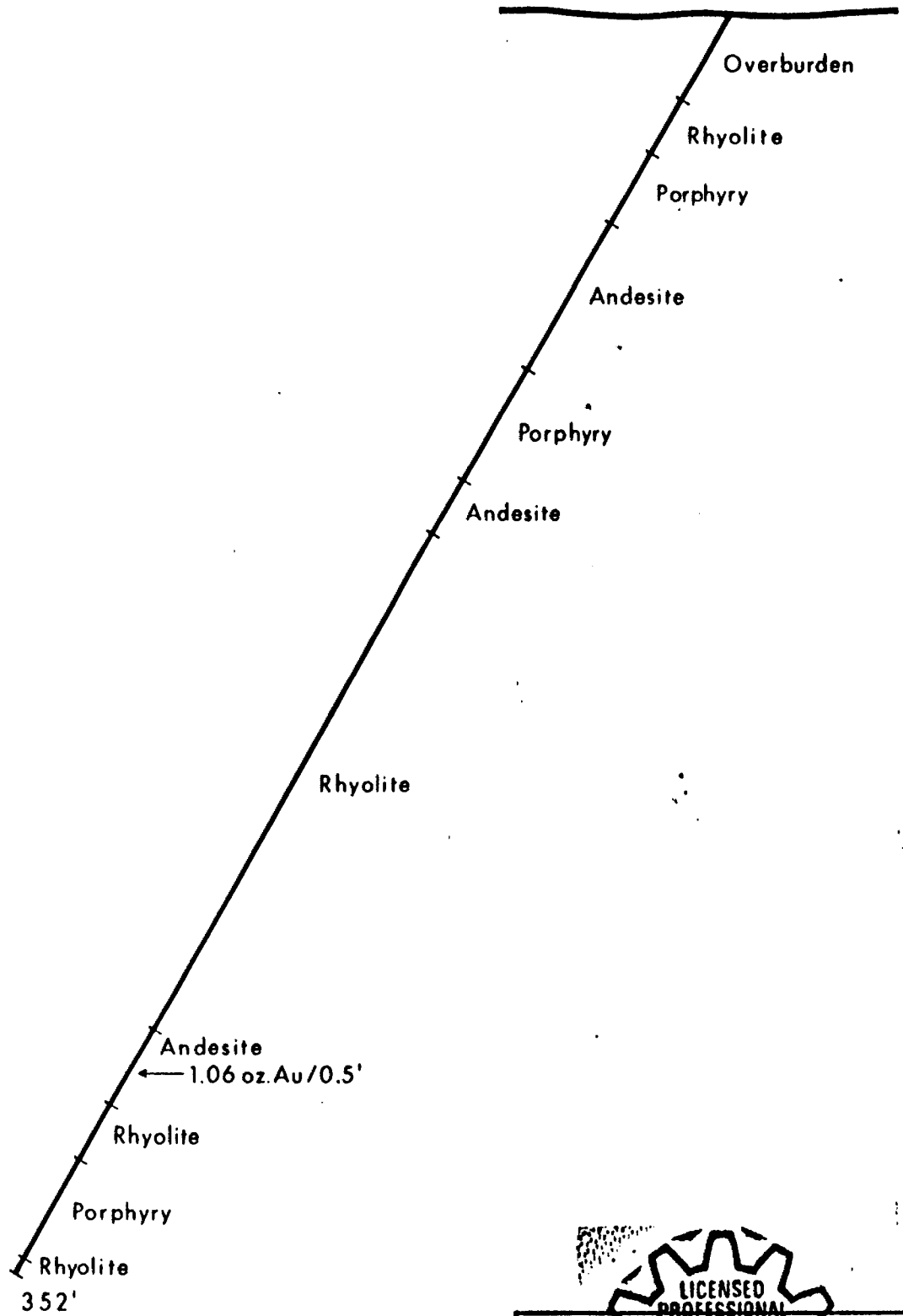
D.D.H. No. 4
2800N, 950W.
S. 60° E.
Inclination 50°



I. R. ZIMMERMAN
KOVKASH GOLD CORPORATION
ONTARIO
D.D.H. No. 4
SCALE

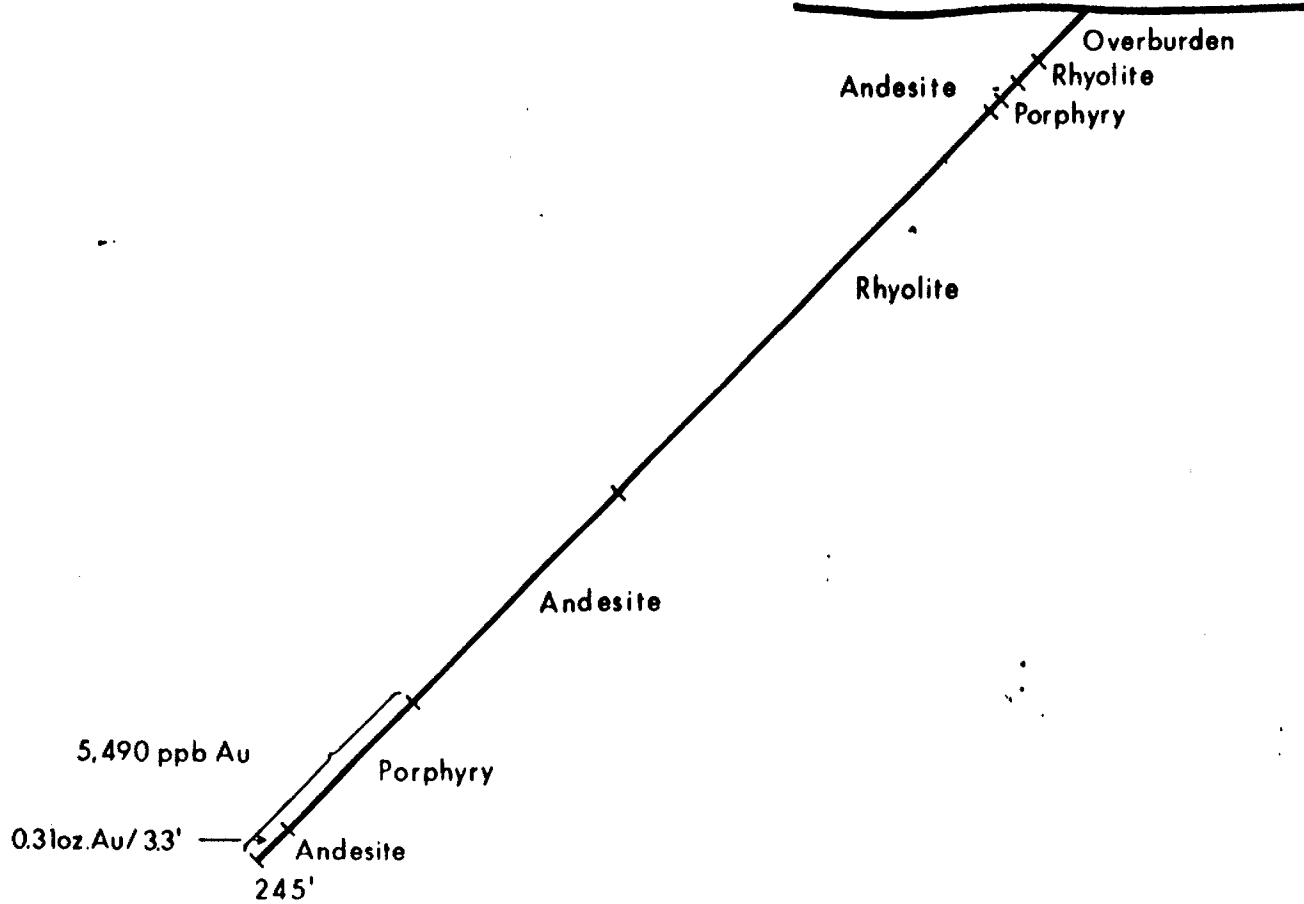
Nov. 10, 1966 J. R. Zimmerman

D.D.H. No. 5
N. 60° W.
2800 N., 600 W.
Inclination 50°



LICENSED PROFESSIONAL ENGINEER
KOWASH ENGINEERING CORPORATION
D. R. ZIMMERMAN
D.D.HOLE No. 5
ONTARIO
SCALE: 1" = 40'

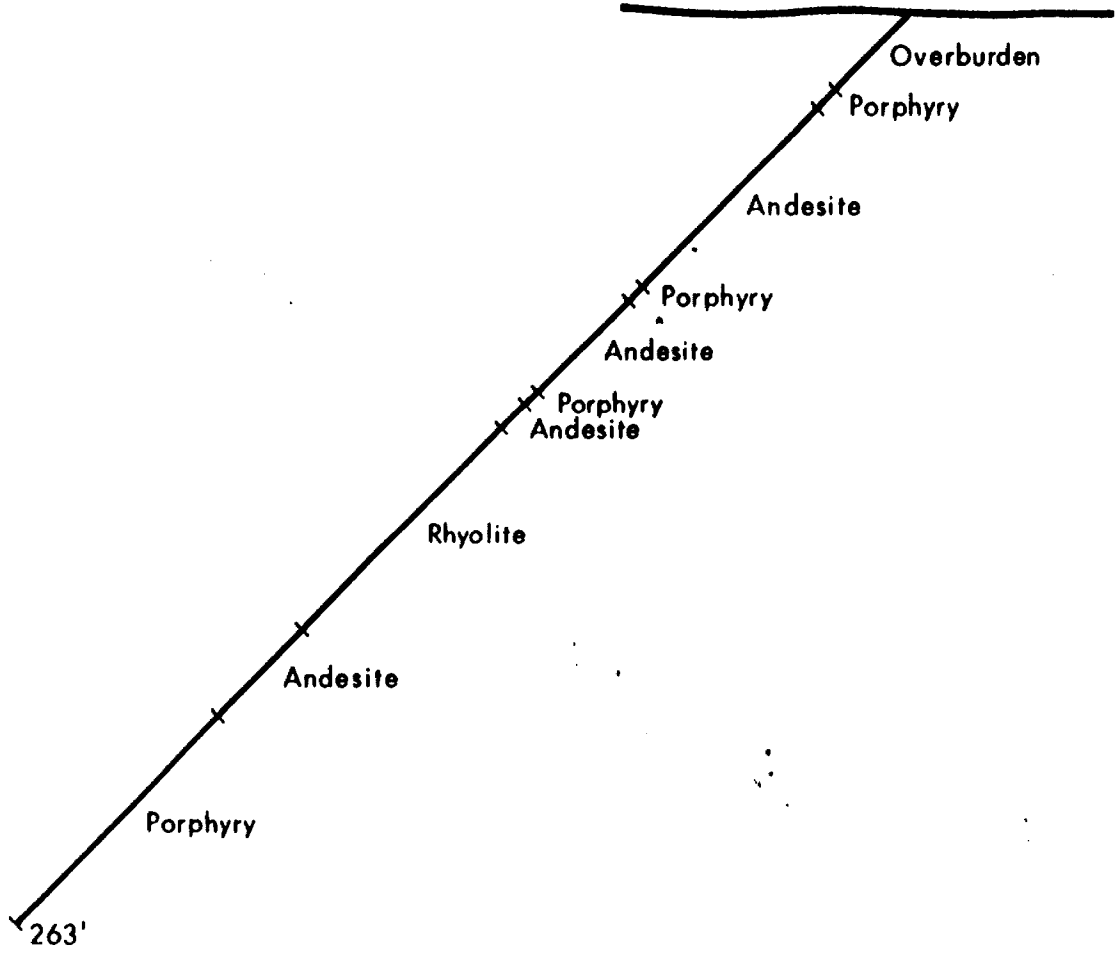
D.D.H. No. 10
N. 60° W.
2570N., 150E.
Inclination 45°



KOWKAB ZIMMERMAN CORPORATION
D. B. HOLLAND No. 10
SCA

Nov. 10, 1966. James R. [Signature]

D.D.H. No. 13
N. 60° W.
2520 W, 150 E.
Inclination 45°



LICENSED PROFESSIONAL ENGINEER

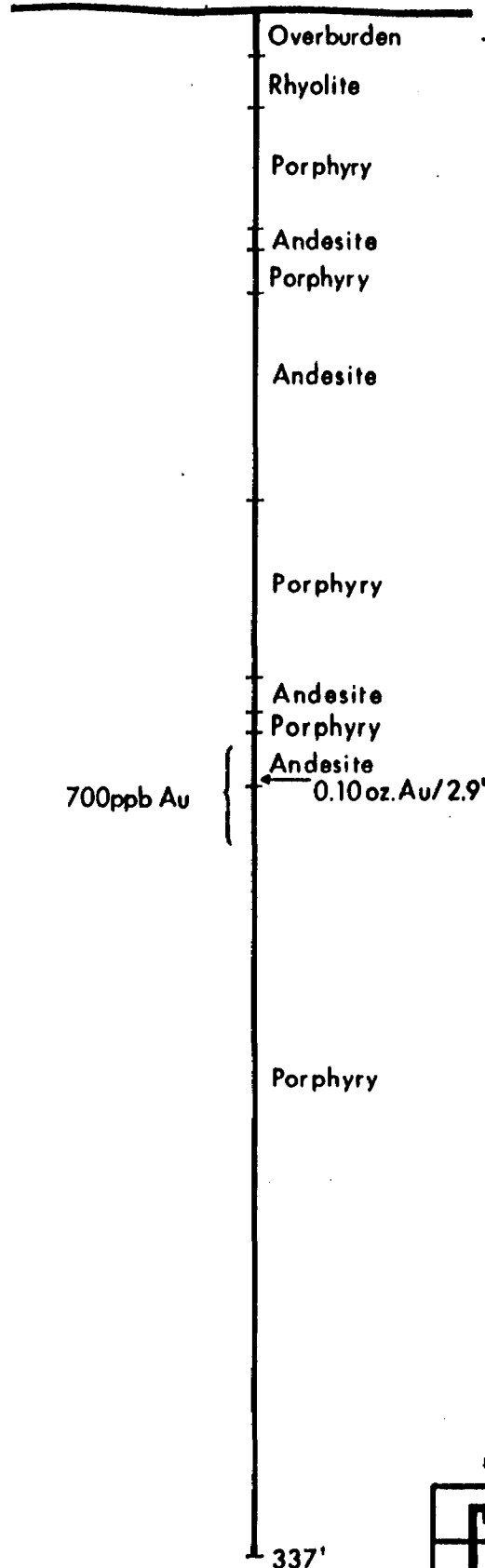
KOWKASH GOLD CORPORATION
J. R. ZIMMERMAN

D. D. HOLE No. 13
ONTARIO

SCALE 1" = 40'

Nov. 10, 1986. J. R. Zimmerman

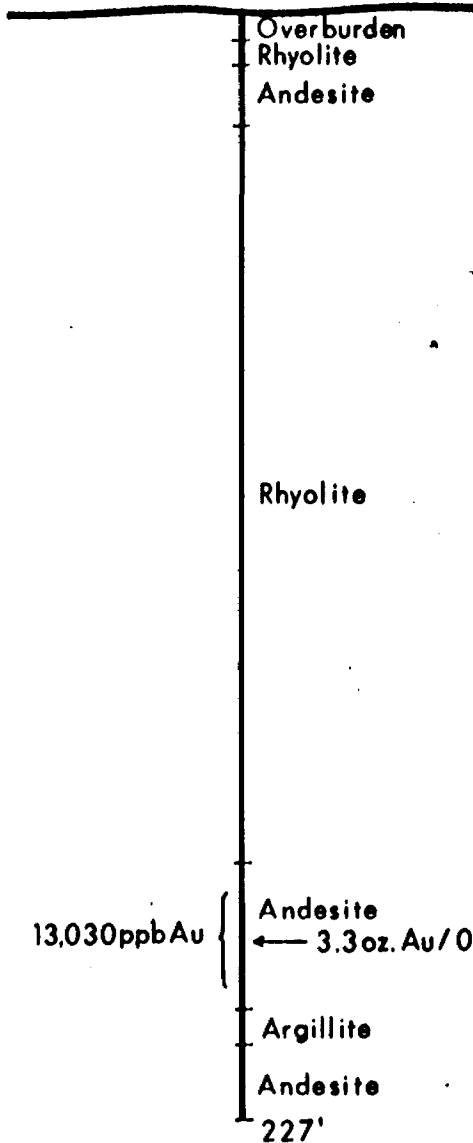
D.D.H. No. 17
2470N., 25W.
Inclination 90°



KOWKASH GOLD CORPORATION	
B. R. ZIMMERMAN	
D.D.H. No. 17	
ONTARIO	
SCALE: 1" = 40'	

Nov. 10, 1986. *James R. Zimmer*

D.D.H. No. 20
2670N., 75 E.
Inclination 90°



LICENSED
PROFESSIONAL
ENGINEER

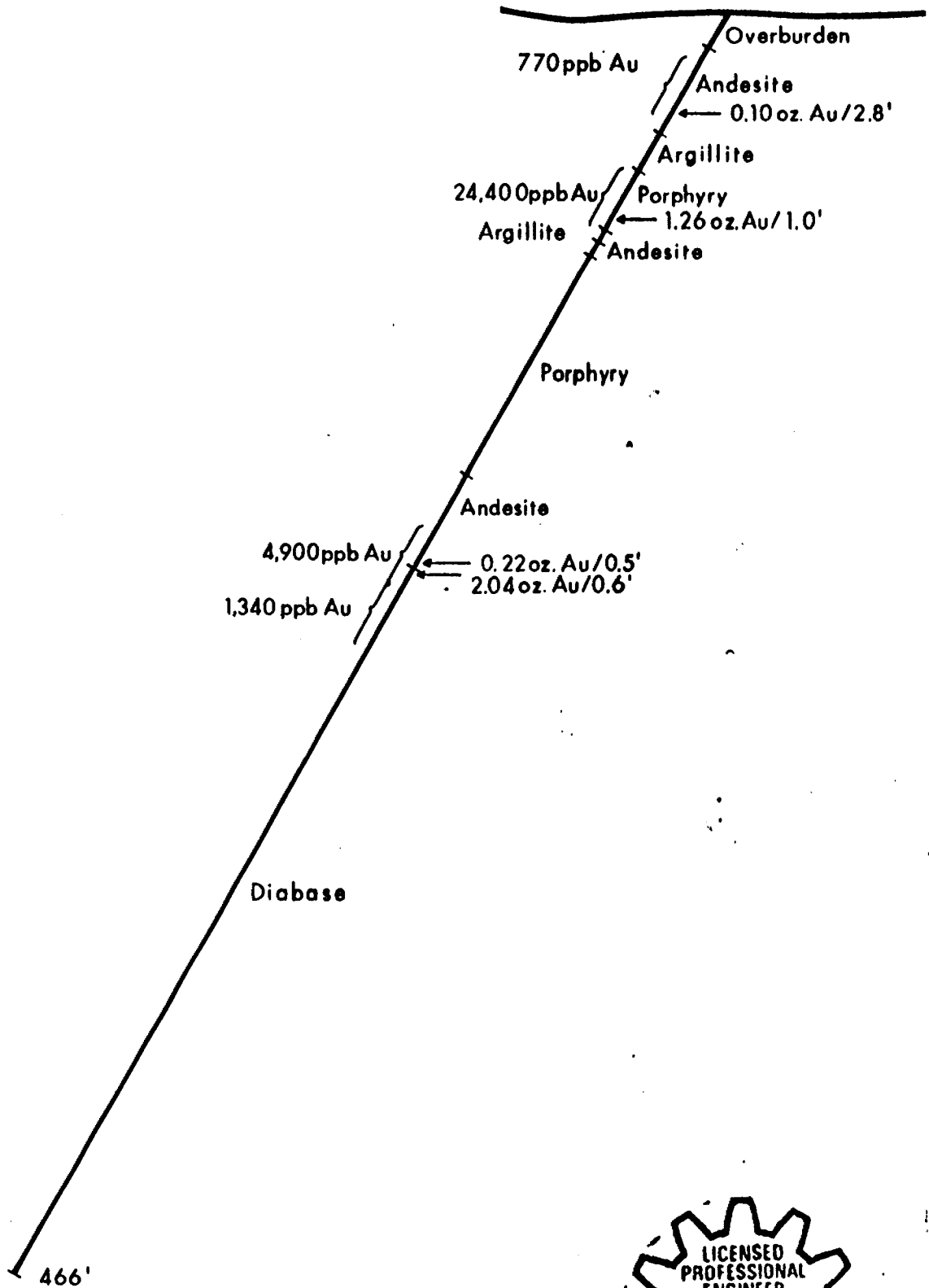
KOWKASH GOLD CORPORATION
J. R. ZIMMERMAN

D.D.H. No. 20
ONTARIO

SCALE: 1" = 40'

Nov. 10, 1966. *J. R. Zimmerman*

D.D.H. No. 21
N. 60° W.
2700 N, 650 W.
Inclination 60°



KOWAL & ZIMMERMAN
KOWAL & ZIMMERMAN CORPORATION

ONTARIO
D. P. HOLE No. 21
SCA

Nov. 10, 1966. J. R. Zimmerman

APPENDIX B

1986 ASSAY CERTIFICATES

O'SULLIVAN LAKE DRILLING PROGRAM 1986

Both core and sludge samples are fire assayed for gold, and those core samples with an asterisk (*) are also assayed for copper.

Hole #22: Core Samples	K1	4.0	7.7
	K2	7.7	9.5
	K3	9.5	12.1
	K4	12.1	15.2
	K5	15.2	17.0
	K6	17.0	21.1
	K7	21.1	23.0
	K8	23.0	27.0
	K9	27.0	30.4
	K10	30.4	34.0
	K11	34.0	36.5
	K12	36.5	39.2
	K13	39.2	39.8
	K14	39.8	42.0
	K15	48.6	49.1
	K16	52.3	53.3
	K17	53.7	55.0
	K18	69.6	71.3
	K19	72.5	75.5
	K20	75.5	77.7
	K21	77.7	79.6
	K22	94.8	95.4
	K23	96.7	97.6
	K24	97.6	101.0
	K25	103.1	105.2
	K26	109.6	112.0
	K27	114.7	117.3
	K28	117.3	120.7
	K29	122.0	123.4
	K30	129.8	130.4
	K31	133.9	135.0
	K32	158.0	161.5
	K33	161.5	163.6
	K34	163.6	167.0
	K35	167.0	171.0
	K36	171.0	175.0
	K37	175.0	178.0
	K38	181.6	182.2
	K39	184.7	187.5

PPB

change ppb to oz/ton

÷ ppb by 34,286

* 206

584 check

*

*

*

*

*1/4 oz/tonne .242 oz/ton
178. f 2000lb*

*

Sludge Samples	K1	4	20
	K2	20	37
	K3	37	57
	K4	57	77
	K5	77	97
	K6	97	117
	K7	117	137
	K8	137	157
	K9	157	177
	K10	177	197
	K11	197	217
	K12	217	237
	K13	237	257

*

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*

Hole #25: Core Samples			
K73	17.4	18.3	
K74	21.6	22.2	3000ppb check
K75	28.6	32.6	
K76	35.4	36.0	
K77	50.6	53.8	*
K78	61.8	65.0	
K79	75.7	76.7	
K80	80.4	82.0	
K81	83.7	84.9	196
K82	87.0	87.8	
K83	97.7	98.7	
K84	99.2	100.2	
K85	101.9	102.3	
K86	121.8	123.1	
K87	126.5	127.9	
K88	132.0	133.6	*
K89	137.5	138.4	.
K90	146.1	147.3	
K91	147.3	148.0	* .036 02
K92	150.3	153.6	
K93	161.4	162.1	
K94	164.3	166.6	
K95	182.5	184.0	
K96	203.0	206.0	
K97	213.2	213.6	474ppb
K98	225.0	227.8	* .064 02
K99	233.7	237.0	.074 02
K100	259.6	260.3	
K101	275.3	277.0	

Sludge Samples			
K33	17	37	
K34	37	57	*
K35	57	77	
K36	77	97	
K37	97	117	
K38	117	137	*
K39	137	157	*
K40	157	177	
K41	177	197	
K42	197	217	.
K43	217	237	*
K44	237	257	

Hole #26: Core Samples			
K102	32.0	34.6	
K103	34.6	35.7	*
K104	55.1	56.8	
K105	62.5	63.2	
K106	73.6	76.1	
K107	89.0	90.0	
K108	98.6	100.6	
K109	101.0	101.8	
K110	103.8	104.7	
K111	113.4	114.4	*
K112	129.0	130.3	
K113	147.3	148.1	
K114	148.0	150.6	
K115	150.6	153.6	
K116	153.8	156.2	
K117	156.2	157.1	
K118	160.0	160.9	
K119	164.7	166.1	
K120	166.1	167.0	*
K121	167.0	169.7	
K122	169.7	173.7	
K123	173.9	178.0	
K124	184.0	188.0	
K125	193.6	197.0	
K126	211.0	214.0	
K127	214.0	217.0	
K128	217.0	220.0	
K129	220.0	222.5	
K130	222.5	225.5	
K131	225.5	228.0	
K132	228.0	230.5	
K133	230.5	234.5	
K134	234.5	237.0	
K135	237.0	240.0	
K136	240.0	244.0	
K137	244.0	247.0	
K138	247.0	248.8	
K139	256.6	257.9	*
K140	270.9	271.9	
K141	272.4	273.3	
K142	276.5	277.2	
K143	278.6	279.5	
K144	296.0	300.0	
K145	302.4	306.4	
K146	306.4	310.4	*
K147	321.5	322.8	
K148	329.3	330.7	
K149	332.0	333.4	
K150	344.3	344.8	

126 ppb

Sludge Samples			
K45	26	37	*
K46	37	57	
K47	57	77	
K48	77	97	
K49	97	117	*

K50	117	137	
K51	137	157	
K52	157	177	*
K53	177	197	
K54	197	217	
K55	217	237	
K56	237	257	*
K57	257	277	*
K58	277	297	
K59	297	317	*
K60	317	337	
K61	337	357	

Hole #27: Core Samples	K151	59.9	62.5	*
	K152	62.5	64.8	
	K153	69.4	70.1	*
	K154	72.8	73.4	*.
	K155	119.0	121.8	
	K156	133.1	135.3	
	K157	139.5	140.3	
	K158	143.6	147.0	
	K159	150.8	151.6	
	K160	157.6	158.2	
	K161	162.1	163.1	*
	K162	164.4	165.6	
	K163	165.6	167.0	
	K164	168.0	170.2	.524 0x
	K165	182.0	184.4	
	K166	190.3	191.6	
	K167	192.2	193.0	
	K168	197.6	198.0	
	K169	198.4	199.1	
	K170	207.7	209.0	
	K171	209.0	209.8	
	K172	213.2	214.0	*
	K173	219.0	221.0	
	K174	247.9	249.0	
	K175	271.2	271.5	
	K176	279.6	281.2	

Sludge Samples	K62	47	67	*
	K63	67	87	*
	K64	87	107	
	K65	107	127	
	K66	127	147	
	K67	147	167	*
	K68	167	187	
	K69	187	207	
	K70	207	227	*
	K71	227	247	
	K72	247	267	
	K73	267	287	
	K74	287	307	
	K75	307	318	

Hole #28: Core Samples	K177	107.2	107.9
	K178	117.5	119.0
	K179	135.5	136.5
	K180	136.5	137.2
	K181	137.2	139.6
	K182	148.0	149.2
	K183	156.3	158.3
	K184	171.4	172.3
	K185	172.8	173.7
	K186	177.0	177.7
	K187	187.4	188.4
	K188	193.0	194.8
	K189	194.8	197.0
	K190	199.5	201.7
	K191	215.6	217.6
	K192	220.1	221.2
	K193	227.9	230.4
	K194	232.3	233.6
	K195	248.0	250.0
	K196	255.5	257.0
	K197	262.4	264.0
	K198	264.0	264.3
	K199	265.0	265.9
	K200	271.4	274.3
	K201	275.2	275.7
	K202	280.0	280.6
	K203	280.6	281.7
	K204	281.7	284.5
	K205	284.5	287.0
	K206	305.0	307.0
	K207	340.0	342.0
	K208	342.0	344.3
	K209	355.8	356.6

Sludge Samples	K76	88	107
	K77	107	127
	K78	127	147
	K79	147	167
	K80	167	187
	K81	187	207
	K82	207	227
	K83	227	247
	K84	247	267
	K85	267	360



Certificate of Analysis

Page 1 of 4

NO. 1844

DATE: November 6, 1986

SAMPLE(S) OF: Core (209)

RECEIVED: October 1986

SAMPLE(S) FROM: Mr. Don Sutherland, Kowkash Gold Corp.

Samp.No.	Au ppb	Au oz.	Cu ppm	Samp.No.	Au ppb	Au oz.	Cu ppm
K- 1	32			K-31	64		
2	6			2	44		
3	7			3	12		
4	26			4	25		
5	27			5	12		360
6	6			6	11		
7	37			7	10		
8	11			8	14		
9	3			9	6		
K-10	15			K-40	7		
1	15			1	27		
2	48			2	19		
3	7			3	6		120
4	4			4	10		
5	15			5	8		
6	15			6	19		
7	36			7	14		
8	206		140	8	21		
9	41			9	10		
K-20	703**			K-50	110		80
1	396			1		0.030**	240
2	30			2	41		
3	49			3	12		900
4	6			4	17		1040
5	51		102	5	74		
6	44		32	6	6		160
7	12			7	52		420
8	51		200	8	3		
9		0.249**	3400	9	140		
K-30	178			K-60	34		

* Checked

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

Per. [Signature]



Certificate of Analysis

NO. 1844

DATE: November 6, 1986

SAMPLE(S) OF: Core (209)

RECEIVED: October 1986

SAMPLE(S) FROM: Mr. Don Sutherland, Kowkash Gold Corp.

Samp.No.	Au ppb	Au oz.	Cu ppm	Samp.No.	Au ppb	Au oz.	Cu ppm	Cu %
K-61	19			K- 91	.	0.041**		2.10**
2	22			2	17			
3	6			3	12			
4	8			4	121			
5	11			5	67			
6	111			6	36			
7	251			7	474			
	11			8		0.062**	1200	
	17			9		0.075**		
K-70	11			K-100	55			
1	36			1	8			
2	49			2	22			
3	14			3	211		2400	
4		0.110**		4	14			
5	14			5	3			
6	4			6	11			
7	12		1800	7	3			
8	38		300	8	29			
9	12			9	14			
K-80	6			K-110	59			
1	196			1	45		820	
2	27			2	1			
3	6			3	4			
4	11			4	7			
5	34			5	8			
6	8			6	59			
7	11			7	8			
8	4			8	32			
9	36			9	11			
K-90	11			K-120	14		640	

** checked

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BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER



Certificate of Analysis

Page 3 of 4

NO. 1844

DATE: November 6, 1986

SAMPLE(S) OF: Core (209)

RECEIVED: October 1986

SAMPLE(S) FROM: Mr. Don Sutherland, Kowkash Gold Corp.

Samp.No.	Au ppb	Au oz.	Cu ppm	Samp.No.	Au ppb	Au oz.	Cu ppm
K-121	19			K-151	6		180
2	25			2	81		
3	19			3	41		420
4	21			4	11		2000
5	11			5	4		
6	4			6	3		
7	4			7	3		
8	18			8	17		
9	17			9	6		
130	43			K-160	27		
1	12			1	8		540
2	70			2	23		
3	18			3	45		
4	22			4	8		
5	6			5	10		
6	22			6	17		
7	19			7	23		
8	126			8		0.508**	
9	3		180	9	30		
K-140	22			K-170	3		
1	11			1	99		340
2	10			2	55		
3	22			3	7		
4	32			4	30		
5	7			5	3		
6	6		140	6	32		
7	4			7	10		
8	6			8	6		
9	2			9	47		
K-150	22			K-180	17		

** Checked

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

PER.



Certificate of Analysis

Page 4 of 4

NO. 1844

DATE:

November 6, 1986

SAMPLE(S) OF: Core (209)

RECEIVED:

October 1986

SAMPLE(S) FROM: Mr. Don Sutherland, Kowkash Gold Corp.

<u>Sample No.</u>	<u>Gold ppb</u>	<u>Cu ppm</u>
K-181	17	
2	26	
3	18	
4	54	
5	48	
6	26	
7	32	
8	18	240
9	21	
K-190	14	
1	51	
2	10	
3	25	
4	6	
5	22	
6	18	
7	26	
8	21	
9	43	
K-200	11	
1	22	
2	26	
3	58	
4	10	
5	10	
6	17	
7	26	
8	29	
9	22	

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER

[Signature]

Note to file # 63.4752

A grid map for drill hole locations
was not included with this file, so
a copy has been taken from part of
the map enclosed with file # 2.10576

#63.4752

OM86-4-P-190

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

1) Diamond Drill Logs
for holes 22 to 28

→ see main office file

DD # 27

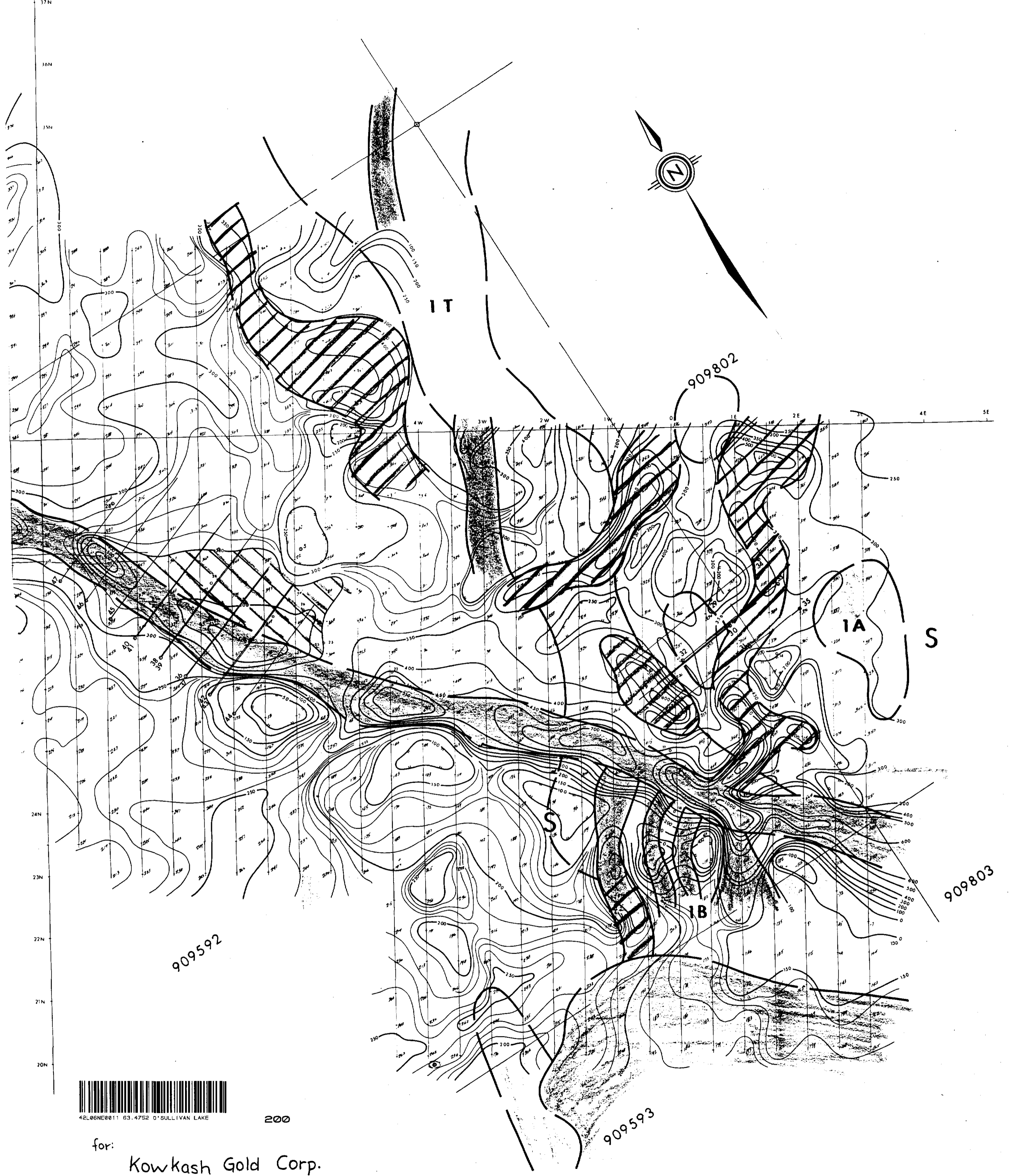
O'Sullivan Lake

2) Diamond Drill sections
(cross section maps)
for holes 22 to 28

→ see main office file

DD # 27

O'Sullivan Lake



42L06NE0011 63.4752 O'SULLIVAN LAKE

200

for:

Kowkash Gold Corp.



from: O'Sullivan Lake

(2.10576)

63.4752