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REPORT OF WORK PERFORMED

ON

DUBENSKI GOLD MINES LIMITED

Flint Lake Property Kenora Mining Division Ontario

November 1, 1985 - October 31, 1986

April 24, 1987

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H.A. Pearson, P. Ep

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### TABLE OF CONTENTS

1. SUMMARY

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- A. The Property and Its History
- B. The Programme and Its Objectives
- 2. GEOLOGY AND MINERALOGY
- 3. THE EXPLORATION PROGRAMME

A. Diamond Drilling Programme B. Ore Reserves

- 4. COSTS INCURRED

1

Appendix 1 Drill logs Assays. Figure 1 - Plan of Shaft Zone and Central Zone. Figure 4 - Longitudinal section of Shaft Zone and Central Zone.

#### DUBENSKI GOLD MINES LIMITED

<u>Flint Lake Property</u> Kenora Mining Division Ontario

O.M.E.P. PROGRAMME November 1, 1985 - October 31, 1986

### 1. SUMMARY:

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### A. The Property and Its History

The Dubenski Flint Lake property is held by Dubenski Gold Mines Limited under option from 525.400 Ontario Inc.

It consists of a block of 22 contiguous claims in the Flint Lake Area, Kenora Mining Division, Northwestern Ontario. Each of the claims is approximately 40 acres, for a total surveyed area of 931 acres.

A legal survey of the 22 claims has given them a leased status as of March 16, 1983 for a term of 21 years.

The claim numbers are as follows (see Dogpaw Lake Claim Map G2613):

K273821 - K273826, inclusive K314923 - K314932, inclusive and K351873 - K351878, inclusive

The property is located approximately six miles northwest of the Nuinsco Mine in the Cameron Lake Area. The road from Highway 71 to the Nuinsco Mine provides access to the Dubenski property. The claims are also accessible by float or ski-equipped aircraft from Sioux Narrows, Kenora or Nestor Falls. It also can be reached by water from the Indian Reserve at Dogpaw Lake.

Gold was first discovered on the property in 1936 by A. Gauthier prospecting for J. Errington. Four holes were diamond drilled at this time.

In 1945, the property was optioned to Noranda Mines and 6,602 feet of diamond drilling were completed.

In 1946, a shaft was sunk to 90 feet by Wampum Gold Mines Ltd. The shaft was later deepened to 132 feet by Dog Paw Gold Mines Limited and a 60 foot cross-cut extended northward on the 125 foot level.



Page 2

In 1969, Gunnex completed magnetic and electromagnetic surveys on the property.

In 1971, the property was staked by P.J. Dubenski, Sr. and optioned to Noranda in 1973. The property remains in the hands of the Dubenski family.

In 1973 and 1974, Noranda carried out detailed geophysical surveys and geological mapping in conjunction with the drilling of 25 holes for a total of 8,079 feet, carried out in two stages.

The drilling outlined a favourable gold-bearing zone, referred to as the Shaft Zone, which was 225 feet long and averaged 0.3 ounces of gold per ton (uncut) over a width of 23 feet and to a depth of 250 feet.

Noranda reported a drill-indicated tonnage in the Shaft Zone area of 85,475 tons averaging 0.263 ounces of gold per ton.

The Shaft Zone lies between 13+50 W and 15+75W.

Sherritt Gordon Mines Limited optioned the property in 1980, and completed 16 drill holes for a total of 3,992 feet. They also carried out a magnetometer survey, a geochemical survey, geological mapping and trench channel sampling.

There are other areas of interest on the property such as the Deep East Zone and the Peninsula East Zone. At 9+00 W, 1+20 N, 18 feet of 0.15 ounces of per ton were intersected about 100 feet below surface. At 0+00, 1+55 N, surface showings of gold occur. Gold mineralization has been traced for a length of 3,000 feet on the property.

### B. The Programme and Its Objectives

Dubenski Gold Mines commenced work on this property in 1984; and between July 1 and October 31, 1984 carried out a programme of line-cutting, bull-dozing, surface sampling, prospecting, shaft rehabilitation and diamond drilling.

The 1985 programme continued to probe the extensions of the mineralization along strike and to depth by diamond drilling. The current programme (November 1, 1985 to October 31, 1986) investigated the westward extension of the shaft zone with 1,207 feet of diamond drilling in 2 holes.

The 1985 programme determined that the deposit has a plunge to the west; and this has added substantial reserves to the Shaft Zone, which, in addition has been extended from 250 feet to 375 feet in depth.

Further, a new Central Zone, between the Shaft Zone and the East Zone, has been established by the deeper drilling. Approximately 500 feet in length, this lies between 800 West and 1,300 West grid lines. It has been indicated, by drilling, between the 150 foot and 350 foot horizons.



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There is a distinct possibility that future diamond drilling will prove the Shaft, Central and East Zones to be one continuous body of significant gold mineralization.

During the period July 1, 1984 to December 31, 1985, 10,849 feet of diamond drilling were completed in 19 holes by Dubenski Gold Mines Limited. The programme was conducted under the supervision of James Vernon, P.Eng., of Oshawa, and H.A. Pearson, P.Eng. of Toronto, Ontario.

### 2. GEOLOGY, MINERALOGY AND METALLURGY

The gold mineralization on the property occurs in felsic to intermediate tuffs and lapilli tuffs. Lesser amounts of felsic to intermediate flows as well as minor porphyries and mafic flows are also present.

Alteration is manifest by silicification, carbonatization and sericitization --- resulting in quartz-sericite schist, chlorite schist and talc schist. An important constituent of these altered and sheared zones is pyrite which may reach up to 15%. Oxidation of the carbonates (ankerite) produces locally buff-coloured horizons.

All the felsic to intermediate rocks are slightly sericitic. The gold mineralization is present in zones of sericite schist and is associated with lenses of pyrite mineralization and in places lenses of silicification.

There appears to be a siliceous zone which does exhibit continuity. This zone is of major interest, as the favourable gold intersections of the Shaft Zone, as well as the flanking lower grade intersections, appear to be directly associated with it. All siliceous zones, however, do not carry gold. Gold appears to be concentrated in siliceous and sericitic felsic tuffs.

Stratigraphically, the mineralization is confined to an interval of approximately 80 feet immediately above the intermediate to mafic tuffs which often form the footwall of the mineralized structure.

Although there is no direct correlation between gold and pyrite content, pyrite is always associated with the gold. The reverse is not always the case.

Visible gold is difficult to spot on the property but about 62% of the gold can be recovered in a high grade gravity concentrate and an additional 32% in a low grade concentrate. A flotation test obtained a 90.36% gold recovery for a concentrate running 4.61 ounces.

Cyanidation recorded even higher recoveries.

Page 4

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### 3. THE EXPLORATION PROGRAMME

### A. Diamond Drilling Programme

Langelaar and Van Enk of Sherrit Gordon have implied that the Dubenski desposits have an easterly plunge. On this assumption, diamond drill hole 84D1 was bored to intercept the downward plunge of the Shaft Zone. However, hole 84D1 failed to intersect significant mineralization.

An examination of the geological structure, would appear to contradict the assumption of an easterly plunge. The intersection of the shear zone with the laminated tuffs appears to be the locus of the ore deposition. The geological formations (laminated tuffs) have a strike of N 105 - 110 E and dip steeply to the south; the shearing strikes N85 - 90 E and dips steeply to the north. This would indicate a plunge to the West. Dr. Charles Blackburn of the Department of Natural Resources who has visited the property concurs with this view.

The concept of a westerly plunge was investigated and confirmed by the 1985 diamond drilling programme.

During the period from November 1, 1985 to October 31, 1986, 1,207 feet were diamond drilled, on the Dubenski property, in 2 holes, (85D20 and 85D21), employing BX core.

The drilling was done by the Nickel Rim Diamond Drilling Company of Sudbury, Ontario.

The locations of these drill holes are shown in Figure 1 (Plan) and Figure 4 (Longitudinal Section). Figures 1 and 4, along with logs of the drill holes and assays are contained in Appendix 1.

The diamond drilling was located on claims K273822 and K273825.

The individual drill hole footages were as follows:

HOLE	FOOTAGE
85D20	603'
85D21	<u>604</u> '
	1,207 feet

In earlier drilling, Hole 85D15 passed through a strong broad fault zone between 133 feet and 245 feet in the hole; and picked up ore intersections west of the fault.

Sherritt Gordon indicated that the Shaft Zone was cut off to the west of the fault; but the ore intersections in 85D15 and 85D18 indicate that such is not the case. Further, surface channel assays indicate continuation of the Shaft Zone mineralization west of the fault on 16+75W (0.32 ounces gold/ton/5 feet, 0.079 ounces gold/ton/5 feet and 0.056 ounces gold/ton/5 feet or 0.15 ounces gold/ton/15 feet).



However, core angles in hole 85D18, 85D20 (10 degrees to core axis) and 85D21 indicate that the formations west of the fault dip north rather than south. This would indicate a hinge movement on the fault; and would explain the failure of diamond drill holes 85D20 and 85D21 to intersect the westward extension of the Shaft Zone.

Future diamond drilling to the west of the fault will be conducted on a north to south pattern.

### B. Ore Reserves

Probable reserves of the Shaft Zone, to a depth of 375 feet, are 133,000 tons with an average grade of 0.24 ounces of gold per ton and an average width of 19 feet. The westward extension of the Shaft Zone remains open.

Drill indicated reserves of the Central Zone are 62,500 tons with an average grade of 0.26 ounces of gold per ton and an average width of 6 feet. The upward and downward extensions of this zone are open; and will be tested by diamond drilling. Further detailed drilling will be required to firm up the reserves of the Central Zone.

Thus, total probable and drill indicated reserves of the Shaft and Central Zones are 195,500 tons with an average grade of 0.245 ounces of gold per ton. Gold values have been cut to 1 ounce.

Plans for 1987 call for the investigation of the Shaft Zone extensions to the west and at depth, of the upward and downward extensions of the Central Zone, followed by definition drilling of the East Zone.

### 4. COST INCURRED

A total of \$ 75,518 was expended on the property during the period November 1, 1985 to October 31, 1986.

A breakdown of the apportioned cost accompanies the application for the Ontario Mineral Exploration Programme Grant.

Har land H.A. Pearson, P. Er H. A. PEARSON VINCE OF OT

## BIAMOND DRILL RECORD

LANGRIDGE LIMITED,

ME OF PR	OND DRILL RECORD	FOOTAGE	DIF AZIN	UTH FOOTA	GE DIP	AZIMUTH	HOLE N	10.85DZC	SHEET NO. LOF 2
CATION TITUDE EVATION ARTED	FLINTLAKE-ONT. 2+255 DEPARTURE 16+50W AZIMUTH 360° DIP -60° V.18185 FINISHED 10V.25185	250	-52° -55°				LOGGEE	ву <u><i>Н.А.</i></u>	Emson P. Eng
ROM TO	DESCRIPTION			21	M P L E	GE		^ 5 5 40	<u> </u>
C Z	CASING.		NO. 1	SUL PH	and the second			·2 OZ/T	ON OZ/TON
₹ 60÷		i*lo shere							
	1065 - 58-60 - Laminated chertite 1090 - 1/4" - 1/2" guartz stringers. 1 finegrained pyrite. 1066 - 88-92 - Quartz braccia Zone.	- Z º/ v		1-2 58		2.0		nil	
	Sericite. 25905ilica. 2-340 fin Grained. pyrita. 1067-218-223 - lightly sheared lamina tuff-20% cherty silica, 2-3% fi	18 -		7-3 88 -3 218				Zis	
	1068 - 299-305 - Moderately shedred, 1 tuff-Some sericite. 20% ocher	sininates	1068 2-	-3 299	305	6.0		mil	
	1059 - 305-310 - As in 1068 1070 - 310-315 - Asin1068	•	10692	-3 305 3 310	310 315			nul žul	

# DIAMOND DRILL RECORD

NAME HOLE LOCA LATIT	OF NO TION	PROF 85	OND ORILL RECORD   D 20 LENGTH 603'   FLINT LAKE - ONTARIO 0   +255 DEPARTURE 16+50 W   AZIMUTH 360° DIP -60°   18/85° FINISHED 1007.25185° 0	-60°	az imuti 360		019	AZIMUTH	REMARK			2.0 f 2 • •	CF.
FO	0т	AGE	DESCRIPTION			SAM	PLE		1	A S S A	Y 5		
FRO	M	то		NC	D. SVI	5 FROM	FOOTAGE	TOTAL		», oz/то	N OZ/TON		
EM 6 - 108			335-352 - Moderately sheared/aninate tuff. 25% ocherty silics, 3-41. find grained pyrite. 369-375 - As in 335-352 but 3-5% of we grained pyrite. 398-400 - 40% cherty silica-5-7% med grained pyrite. 421-423 - 3x 1/2 quartz stringers, 5-7% med i um grained - coarse grained pyrite. 436-437 - 7-10% medium grained - Coarse grained pyrite. 436-437 - 7-10% medium grained - Coarse grained pyrite. 436-437 - 7-10% medium grained - Coarse grained pyrite. 455-458 - 15% guartz stringers. 6-8% fina grained - medium grained pyrita 1071-542-647 Moderately sheared laminat tuff - Jinkerite - 30% cherty silica. 2-3 fine grained pyrite. 1072 - 547-551.5- As in 1071. 603- END OF Hole E.	- - - - - - - - - - - - - - - - - - -		5-42 547				pea nil zid	le 1	MCE O OTT	AR

EM, 6-1168

LANGRIDGE LIMITED,

😕 🛤 OND DRILL RECORD HOLE NO. 85 DZI SHEET NO. 10 FZ DUBENSKI NAME OF PROPERTY AZIMUTH AZIMUTH FOOTAGE DIP FOOTAGE aie HOLE NO. 85121 LENGTH 604 0 60 360° FLINT LAKE-ONT 2+755 DEPARTURE 15+75W LATITUDE AZIMUTH 360° DIP - 60° NOV 10/85 FINISHED 10V.16/85 ELEVATION LOGGED BY H.A. PEARSON P.ENG FOOTAGE 5 AU SAMPLE DESCRIPTION FROM то FOOTAGE NO. SULPH-OZ/TON OZ/TON ·., FROM TOTAL то 0 CASING. 6 Moderately sheared light gray scricitic 52 phyodacite, Lessthan 1% finegrained pyrite. 52 530 N'loderately sheared medium graygreen decitic fragmental tuff (lapilli). Some chloritic sactions. Also some laminated Sections, 1-2% fine grained pyrita. 1073 - 81-86 - Moderataly sheared sericitic 1013 2-3 86 5.0 81 Zel. Taminated tuffs . 25% charty silica. 2-306fina grained pyrite sel 1074 - 945-98 - Asin 1073 but 3-5 % fine 1074 3-5 945 98 3.5 grained - medium grained pyrite. 1075-122-129- Moderstel/Sheared grey- 1075 4-6 122 129 249 7.0 green Isminsted tuffs. Some sericite. 30-35% cherty silica. 4-6% finegrained. medium grained pyrita. vil 150-160 - Coarse lapilli. 1076 - 172-175 - 2× 4" quartz stringers-wall 1076 5-7 172 mineralised, 5-7% finegrained pyrite 3.0 175 At JUR - Ill AMENTE Stringon

## PIAMOND DRILL RECORD

LOCATION	5D21 LENGTH 604' FLINT LARF-ONTARIO	FOOTAGE DI	° 360	FOOTAGE	CIP /		HOLE NO	n. <u>85 D</u> 2/ si k s	HEET NO 2	•fz ●
ELEVATION	4755 DEPARTURE 15+75W AZIMUTH 360° DIP -60° NU.10/85 FINISHED NOV. 16/85						LOGGED	ву <u></u>	ZARSONT	?Eve
FOOTAGE	DESCRIPTION			SAM				^ SAA	1 1	
FROM TO			NO. SUL		FOOTAGE	TOTAL			OZ/TON	_
	1077 - 302-307 - lightly sheared las		1077 1	z 302	307	5.0		nef		
	tuffs. 4000 charty guertz. lightsa 1-290 fine grained - medium grained my 1078-347-353 - Lightly shoared lamin tuffs. 2000 charty guartz. lights	Imita.	10782-:	347	353	6.0		nil		
	1079-381-386-A5 in 1078		079 2-3	381	386	5.0		nil		
	402-414 - Numerous 1/4"-1/2"quarte str	ingers.	100 2-3	501	1505	4.0		.012		
30 535	Less than 10% finagrained py Moderately sheared sericitic que	ortz /	001 2.3	505	570	570		.612		
	porphyry. Less than 10% fine gra		003 2-	515	520			, 5/2		
35 604	Moderately sheared medium gray-d		107 2-3		539	4,0		.036		
	gray carbonated andasite, hessthan	10/	1-1 800	539	5#3	. 8		.048		
	fine grained - medium grained pyri	ta l	191-2	I I	547	1		.060		1
	Occasional 1/4"-1/2"quarte stringer	3.	VO 1-Z	547	551	410	-	1024	Str. Pore	1 the
	604 - END OF HOLE						ps-	a la	H. A. PEAR	Charles .

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## DIEPDAUME MINES LTD. ASSAY REPORT

## SAMPLES: DUBENSKI

## DATE: DEC./85

f*	······································				
			Au oz/ton		
SAMPLE NO.	DESCRIPT	TON	oz/ton		
975	H85 D16B.20	357-3601	0.012		
976		360-3651			
977		365-3701	0.012 NIL		ļ
978	1	370-3731			1
979	D21B.22	397-4021	NIL		
980		402-4071	NIL NIL		
981		407-4121	NIL		
982		412-4171	NIL	[	{
983	B.23	417-4221	NIL		
984		422-4271	NIL		1
985		427-4321	NIL		
986		432-4371	NIL	ĺ	
987	B.24	437-442'	NIL		
988		442-447'	NIL		1
989		447-4521	NIL		
990		452-4571	NIL		
991		457-4621	NIL		
992		462-4671	NIL		
993	<b>•</b>	467-4721	NIL		
994		472-4771	NIL		
995	}	477-4821	NIL		
996		482-4871	NIL		
997	ļ	487-4921	NIL		j
998		492-4971	NIL		
999	B.27	497-5011	NIL		
1000		501-5051	0.012		
1001		505-510' 510-515'	0.012		
	D. od		NIL		
1003	B.28	515-5201	0.012		
1004		520-5251	NIL		
1005		525-530'	NIL		
1006	D 00	530-5351	NIL		
1007	B.29	535-5391	0.036		
1008		539-5431	0.048		
1009 1010		543-547	0.060		
1010	0.00	547-551	0.024		
1011	B.30	551-5551	NIL		
1012		555-560	NIL		
1013		560-5641	NIL		
1014	n <b>n</b>	564-5681	NIL		
	B.31	568-5721	NIL		

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## DIEPDAUME MINES LTD. ASSAY REPORT

## SAMPLES: DUBENSKI

## DATE: DEC./85

SAMPLE NO.	DESCRIPTION	Au oz/ton
1016 1017 1018 1019 1020 1021 1022 1023	H85 D21 B.31 572-577' 577-582' 582-587' 587-591' 591-595' 595-600' 600-604'	NIL NIL NIL NIL NIL NIL
1024 1025 1026 1027 1028 1029 1030	H85 D20 B.18 325-330 B. 18&19 330-335 B. 19 335-340 340-345 345-350 B. 20 350-355 355-360 360-365	NIL NIL NIL NIL NIL NIL NIL
1031 1032 1033 1034 1035 1036	365-370' B. 20&21 370-375' B. 21 375-380' 389-385' 385-390'	NIL NIL NIL NIL NIL NIL
1037 1038 1039 1040 1041	395-4001 400-4051 405-4101 B. 23 410-4151 415-4201	NIL NIL NIL NIL NIL NIL
1042 1043 1044 1045 1046 1047	420-425' 425-430' B. 24 430-435' 435-439' 439-444' 444-448'	NIL NIL NIL NIL NIL NIL
1048 1049 1050 1051 1052 1053	B. 25 448-452' 452-456' 456-461' 461-466' B. 26 466-470' 470-475'	NIL NIL NIL NIL NIL NIL
1054 1055 1056	475-4801 480-4851 B. 27 485-4901	NIL NIL

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### DIEPDAUME MINES LTD.

## ASSAY REPORT

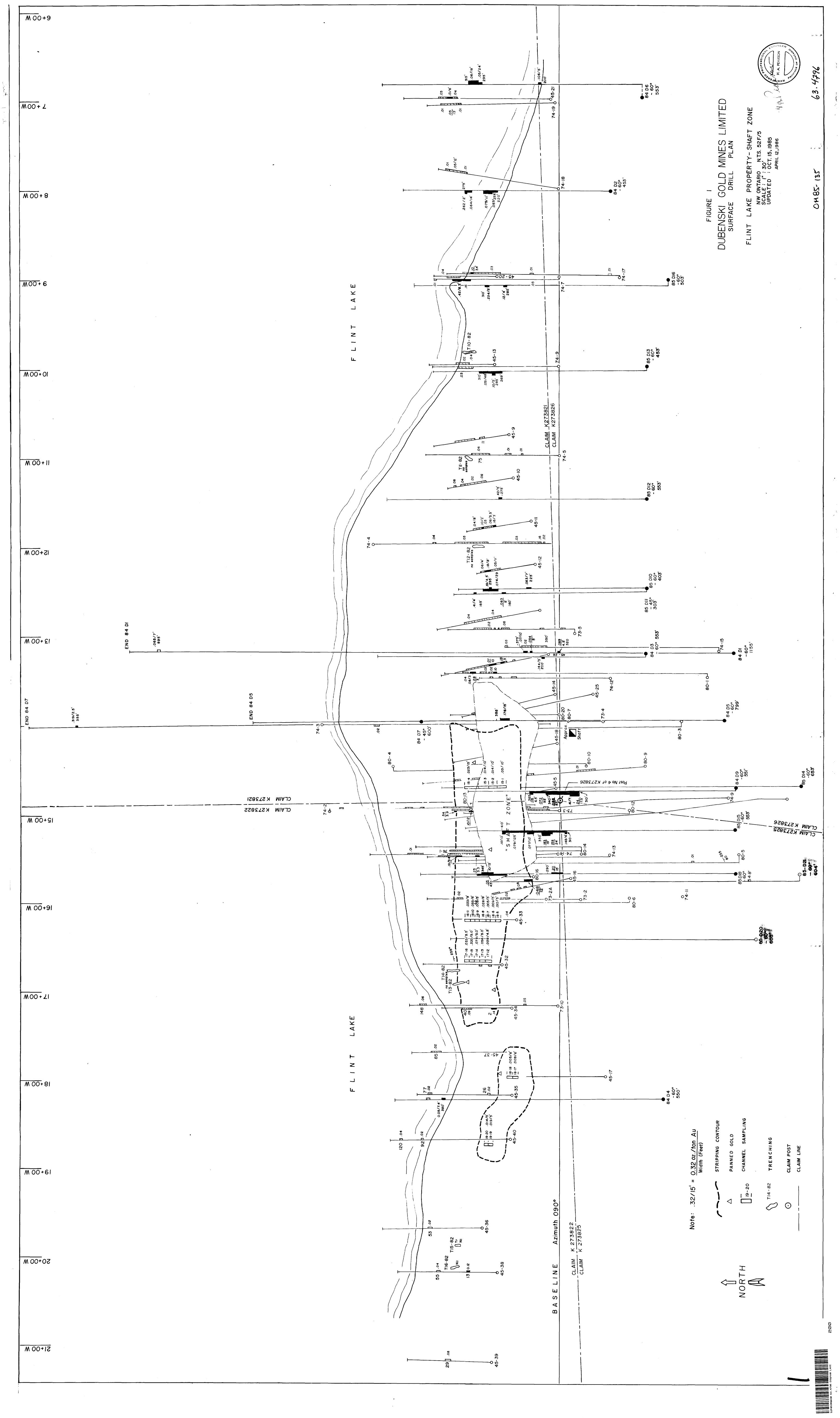
### SAMPLES: DUBENSKI

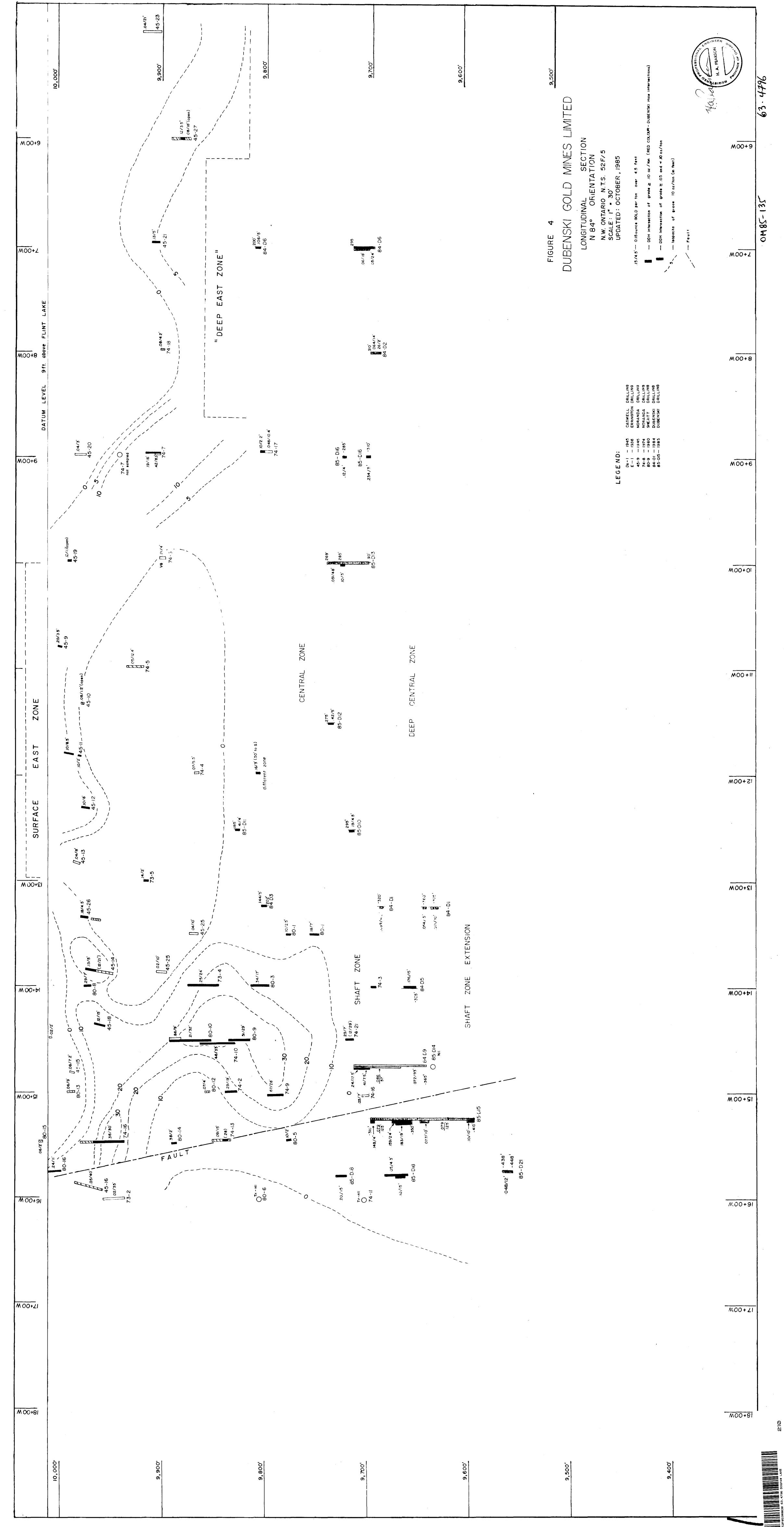
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### DATE: DEC./85

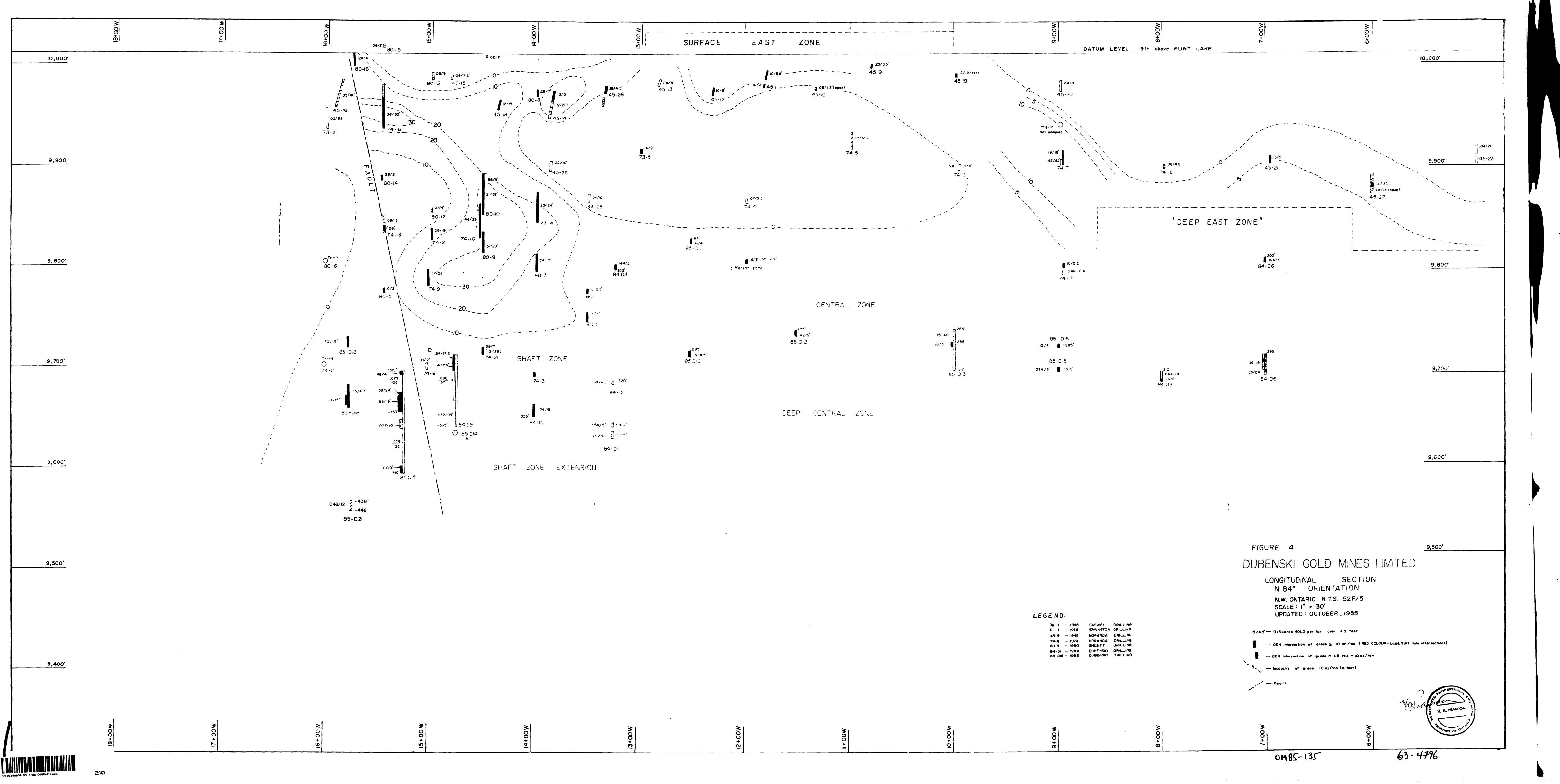
	1				, <del></del>	ר <del></del> ח
				Au		
SAMPLE NO.		SCRIPTIO	N	Au oz/ton		
1057	H85 D20	B.27	490-495'	NIL		
1058			495-500'	NIL		
1059			500-504'	NIL		
1060	1	B.28	504-508'	NIL		
1061			508-512'	NIL		
1062			512-516'	NIL		
1063	1		516-520'	NIL		
1064		B.29	520-525'	NIL		
1065	ĺ	B.3	58-60'	NIL		
1066		B.5	88-92'	NIL		
1067	1	B.12&13	218-223'	NIL		
1068		B.17	299-300'	NIL		
1069	Į	B.16&17		NIL		
1070		B.18	310-315'	NIL		
1071	[	B.30	542-547	NIL		
1072			547-552'	NIL		
1073	H85 D21	B.5	81-86'	NIL		
1074			94.5-98'	NIL		
1075		B.7	122-129'	NIL		1
1076	}	B.10	172-175'	NIL		
1077		B.17	302-307'	NIL		
1078	}	B.19	347-353'	NIL		
1079		B.21	381-386'	NIL		4
1080	H84 D3	B.11	207-213'	NIL		
1081			213-218'	NIL		1
1082	ļ		218-223'	NIL		1 1
1083			223-228'	NIL		
1084	1	B.12	228-233'	NIL		
1085		B.12&13		NIL		1
1086	ł	B.13	243-248'	NIL		
1087			248-253'	NIL		
1088	1	B.14	253-257'	0.024		
1089	H84 D5	B.22	412-417'	NIL I		1
1090			417-422'	0.036		1
1091		B.23	422-427'	0.054		
1092	ł	2127	427-432'	0.054		1 I
1093			432-433'	0.042		
1094	1	B.24	442-446'	1		
1095		D . C .	446-451'	NIL		
1096	1		451-456'	NIL		1
1097	1		456-461'	NIL		
1098			451-466	NIL NIL		

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Dx - i	-	1945	CASWELL	DRILLING
E — I		1936	ERRINGTON	DRILLING
45-9		1945	NORANDA	DRILLING
74-8	_	1974	NORANDA	DRILLING
80-9	-	1980	SHEAITT	DRILLING
84-DI	_	1984	DUGENSKI	ORILLING
85-015	-	1985	DUBENSKI	DRILLING

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