

# XRAL

# X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755



41016SW0002 2.8485 HEENAN

010

ICE TO

FALCONBRIDGE LIMITED  
 ATTN: B. MANCHUCK  
 167 WILSON AVENUE  
 TIMMINS, ONTARIO  
 P4N 2T2

SHIPPED TO

FALCONBRIDGE LIMITED  
 ACCOUNTS PAYABLE DEPARTMENT  
 979 AVENUE DE BOURGOONE, SUITE 310  
 SAINTE-FOY, QUEBEC G1W 2L4

CUSTOMER NO. 233

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
21664	20-JUL-84	17280	3-JUL-84

TERMS

TERMS NET 30 DAYS  
 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

INVOICE NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
21664	P-668	WHOLE CORE

PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
1 BAGS	SMALL FRY(PART OF 17275)	11528	

QTY	DESCRIPTION METHOD	KRAL CODE	UNIT COST	AMOUNT
37	AU	12,10,20, 0, 0, 0	7.00	259.00
37	WHOLE CORE, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	101.75
SUB-TOTAL				\$ 360.75

X-RAY ASSAY LABORATORIES LTD.

*Accounts Receivable Dept. Sep 10 85*  
*Paid in full J.D.*

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER			BURCHARGE - RUSH SERVICE

OFFICE COPY

ENTERED AUG 1 1984

TOTAL

CANADIAN FUNDS

\$ 360.75

SAMPLE AD PPB

	SAMPLE	AD	PPB
	D6001		9
	D6026		210
	D6027		46
	D6030		77
	D6031		86
	D6032		85
	D6033		21
DDH #6	D6035		290
	D6036		75
	D6039		7
	D6040		15
	D6041		130
	D6043		10
	D6048		240
	D6049		100
	D6052		30
	D6053		73
	D6082		41
DDH #7	D6084		61
	D6086		46
	D6088		100
	D6090		68
	D6096		140
	D6098		61
	D6105		15
	D6106		46
	D6109		38
	D6111		30
	D6114		18
	D6118		6
	D6126		0
DDH #8	D6127		380
	D6129		40
	D6138		3
	D6141		7
	D6143		12
	D6145		2

FALCONBRIDGE LIMITED

167 WILSON AVENUE

TIMMINS, ONTARIO

P4N 2T2

Telephone  
267-6009

EXPENDITURE STATEMENT

RECEIVED  
SEP 30 1985  
MINING LANDS SECTION

SWASTIKA LABORATORIES LIMITED:

<u>Invoice #</u>	<u>Amount</u>		
9593	\$ 748.40 ✓		
9650	1147.50 ✓		
9737	427.50 ✓		
9898	1473.75 ✓		
	<u>\$ 3797.15</u>	.....	<u>\$ 3797.15</u>

X-RAY ASSAY LABORATORIES LIMITED:

<u>Invoice #</u>	<u>Amount</u>		
21664	\$ 360.75 ✓		
21790	672.75 ✓		
22010	19.50 ✓		
22151	168.30 ✓		
	<u>\$ 1221.30</u>	.....	<u>\$ 1221.30</u>

TOTAL ..... \$ 5018.45

\$ 5018.45 ÷ 15 = 334.56 (man days)

*Robert M. ...*

# XRAL

# X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755  
COPY TO

ICE TO

FALCONBRIDGE LIMITED  
ATTN: B. MANCHUCK  
167 WILSON AVENUE  
TIMMINS, ONTARIO  
P4N 2T2

BITED TO

FALCONBRIDGE LIMITED  
ACCOUNTS PAYABLE DEPARTMENT  
979 AVENUE DE BOURGOGNE, SUITE 310  
SAINTE-FOY, QUEBEC G1W 2L4

CUSTOMER NO. 238

INVOICE NO	INVOICE DATE	WORK ORDER NO	DATE SUBMITTED
21790	31-JUL-84	17454	18-JUL-84

TERMS

TERMS NET 30 DAYS  
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

APC NO	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
	P-668	WHOLE CORE

PKGS	SHIPPED VIA	WAY BILL NO	SHIPPED FROM
BAGS	CNX	213670833	

QTY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
67 72	AU WHOLE CORE, CRUSHING & MILLING (CHROME STEEL MILL)	12,10,20, 0, 0, 0	7.00	504.00
67 72		99, 1, 0, 0, 0, 0	2.75	-198.00
SUB-TOTAL				\$ 702.00

X-RAY ASSAY LABORATORIES LTD  
*Paid in full*  
*Accounts Receivable Dept*

SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
48.35			
OTHER	SURCHARGE RUSH SERVICE		
			\$ 48.35

OFFICE COPY — ENTERED AUG 8 1984 TOTAL IN CANADIAN FUNDS \$ 750.35

SAMPLE	AU PPB
6201	36
6203	19
6204	22
6205	24
6206	<1
6209	1
6212	1
6213	11
DPH #9 6214	1
6215	10
6220	3
6222	<1
6223	1
6224	13
6227	2
6229	34
6231	10
6233	<1
6235	<1
6237	1
6238	<1
6241	<1
6242	3
6244	<1
6245	<1
6246	<1
DPH #8 6247	2
6252	1
6254	4
6261	1
6262	<1
6264	1
6267	20
6268	4
6269	23
6270	1
6272	5
6273	4
6274	920
DPH #1 6278	1700
6279	840
6281	18
6282	96
6283	12
6284	40
6287	1
6297	8
DPH #8 6298	<1
6299	1
6300	1

SAMPLE	AU PPB
6301	10
6302	41
6303	3
6304	38
PPN #1A 6306	130
6307	190
6309	56
6310	4
6311	4
6312	<1
6313	2
6314	6
6315	56
6316	210
6317	5
6318	38
6319	340
PPN #2 6320	80
6321	12
6322	170
6323	3
6324	16

# XRAL

# X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO

TO  
 FALCONBRIDGE LIMITED  
 ATTN: B. MANCHUCK  
 167 WILSON AVENUE  
 TIMMINS, ONTARIO  
 P4N 2T2

ATTN TO  
 FALCONBRIDGE LIMITED  
 ACCOUNTS PAYABLE DEPARTMENT  
 979 AVENUE DE BOURGOGNE, SUITE 310  
 SAINTE-FOY, QUEBEC G1W 2L4

CUSTOMER NO 238

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
22010	21-AUG-84	17618	31-JUL-84

TERMS

TERMS NET 30 DAYS  
 1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

SP.O. NO.	CLIENT PROJECT NO. P-668	TYPE OF SAMPLES SUBMITTED ROCK WHOLE CORE
-----------	-----------------------------	--

PKG BAG	SHIPPED VIA SMALL FRY	WAY BILL NO. 13535	SHIPPED FROM
------------	--------------------------	-----------------------	--------------

QTY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
9	AU	12, 10, 20, 0, 0, 0	7.00	63.00
7	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	19.25
2	WHOLE CORE, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	5.50
<p><u>For ASSAYS @ 2.01542 x 7.00</u></p> <p><u>= 19.10</u></p>				
<p>X-RAY ASSAY LABORATORIES LTD.</p> <p><i>[Signature]</i></p> <p><i>[Stamp]</i></p>				
			SUB-TOTAL	\$ 87.75

SHIPPING CHARGES 15.15	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGE:	
OTHER			SURCHARGE - RUSH SERVICE	\$ 15.15

OFFICE COPY

ENTERED AUG 3 1 1984

TOTAL IN CANADIAN FUNDS

102.90  
 19.50

SAMPLE	AU PPB
4401	<1
4402	0
4403	2
4404	2
4405	03
4406	4
4407	7
DDH, # <input type="checkbox"/> 6334	32
<input type="checkbox"/> 6336	290

AUG 23 1984



# X-RAL

## X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

COPY TO

*note - cost of 5 samples*

DE TO  
FALCONBRIDGE LIMITED  
ATTN: B. MANCHUCK  
167 WILSON AVENUE  
TIMMINS, ONTARIO  
P4N 2T2

ATTN TO  
FALCONBRIDGE LIMITED  
ACCOUNTS PAYABLE DEPARTMENT  
979 AVENUE DE BOURGOGNE, SUITE 310  
SAINTE-FOY, QUEBEC G1W 2L4

CUSTOMER NO. 238

INVOICE NO.	INVOICE DATE	WORK ORDER NO	DATE SUBMITTED
22151	30-AUG-84	17772	14-AUG-84

TERMS

TERMS NET 30 DAYS  
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

3 P.O. NO.	CLIENT PROJECT NO. P-668	TYPE OF SAMPLES SUBMITTED ROCK WHOLE CORE
------------	-----------------------------	--

PKGS. BOX	SHIPPED VIA CNX	WAY BILL NO. 213675431	SHIPPED FROM
--------------	--------------------	---------------------------	--------------

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
19	AU	12,10,20, 0, 0, 0	7.00	133.00
5	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	13.75
14	WHOLE CORE, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	2.75	38.50

X-RAY ASSAY LABORATORIES LTD.

*Account to be settled by 14 Sept 1984*

*NOTE minus cost of mill samples  
5 x 2.75 = 48.75  
For assessment 217.05 - 48.75  
= 168.30*

SUB-TOTAL \$ 185.25

SHIPPING CHARGES 31.80	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
OTHER	SURCHARGE - RUSH SERVICE		\$ 31.80

TOTAL IN CANADIAN FUNDS \$ 217.05  
*168.30*

OFFICE COPY

ENTERED SEP 7 1984

SAMPLE	AU PPB
4453	<1
4454	2
4455	5
4456	19
4457	85
6409	10
6412	9
6415	2
6423	20
6424	47
DPH #11 6427	25
6428	7
6429	20
6430	4
6433	43
6508	3
6509	10
DPH #12 6510	3
6515	81



# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

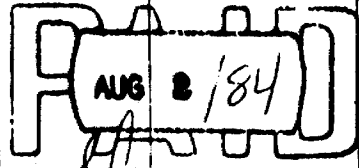
TO

Falconbridge Limited  
 979 rue de Bourgogne  
 Suite 100  
 Ste. Foy, Quebec  
 G1W 2L4 Att'n: Mr. J. Boissonnault

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DATE	SHIPPED VIA	FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDERING	TERMS	SALESMAN
July 12/84				Prof. P-668		Net 30 days	
QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT	
65	Au Assays PPB				\$ 8.50	\$ 552.50	
65	Sample handling Cert. No. 58093 July 5/84				2.75	178.75	
	Bus charges --as per attached					17.15	
<b>TOTAL ..</b>						<b>\$ 748.40</b>	

SWASTIKA LABORATORIES LTD.



ALX 101 BUSINESS FORMS 3 7060E

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS  
 ESTABLISHED 1928

FACTURE / INVOICE





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 58093

Date: July 5, 1984

Received June 29, 1984 65 Samples of split core

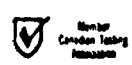
Submitted by Falconbridge Ltd., Timmins, Ontario proj. #P-668

page 1 of 2

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
6002 ✓	50	6020 ✓	440	6053 ✓	310
6003 ✓	190	6021 ✓	540	6054 ✓	140
6004 ✓	250	6022 ✓	460	6055 ✓	910
	230	6023 ✓	190	6056 ✓	380
6005 ✓	260	6024 ✓	530	6057 ✓	110
6006 ✓	240		820	6059 ✓	190
6007 ✓	560	6025 ✓	360	6060 ✓	90
6008 ✓	40	6028 ✓	200	6061 ✓	110
6009 ✓	810	6029 ✓	Ni1		100
6010 ✓	530	6034 ✓	40	6062 ✓	10
6011 ✓	40	6037 ✓	20	6063 ✓	60
6012 ✓	120	6038 ✓	30	6064 ✓	40
PPH# 6013 ✓	1430	PPH# 6042 ✓	30	PPH# 6065 ✓	1510
	1510	6044 ✓	90	6066 ✓	20
6014 ✓	230	6045 ✓	70	6085 ✓	280
6015 ✓	120	6046 ✓	1030	6087 ✓	410
6016 ✓	400		860	6089 ✓	310
6017 ✓	100	6047 ✓	130	6091 ✓	120
6018 ✓	450	6050 ✓	590	6092 ✓	3290
6019 ✓	390	6051 ✓	100		3500
				second pulp	2950
					2880

con't...

Per G. Lebel  
G. Lebel, Manager



ESTABLISHED 1928



# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 58093

Date: July 5, 1984

Received June 29, 1984 65 Samples of split core

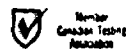
Submitted by Falconbridge Ltd., Timmins, Ontario proj.#P-668

page 2 of 2

	SAMPLE NO.	GOLD PPB
PI # 7	6093	440
	6094	610
	6097	130
PI # 5	6109	160
	6113	940
	6116	Ni1
	6123	10
	6124	60
	6128	10
	6133	Ni1
	6137	30 30

Per G. Lebel  
G. Lebel, Manager

ESTABLISHED 1928





**SWASTIKA LABORATORIES LIMITED**

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

**PODD TO**  
**Falconbridge Limited**  
 301 - 979 rue de Bourgogne  
 Ste. Foy, Quebec  
 G1W 2L4

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1.5% late charge over 30 days  
 (annual rate 18%)

DATE	SHIPPED VIA	FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	YOUR ORDER NO.	TERMS	TOTALS
July 23/84				Proj:P-668		Net 30 days	
QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT	
15	Au Assays PPB				\$ 8.50	\$ 127.50	
15	Sample handling				2.75	41.25	
	Cert. No. 58180 July 12/84						B. Manchuk
87	Auy Assays PPB				8.50	739.50	
87	Sample handling				2.75	239.25	
	Cert. No. 58204 July 18/84						" "
							SWASTIKA LABORATORIES LTD
							AUG 20 1984
							WITH THANKS
						TOTAL PER	1147.50

ANALYTICAL BUSINESS FORMS 3 7060E

FACTURE / INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 58180

Date: July 12, 1984

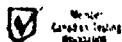
Received July 10, 1984 15 Samples of split core

Submitted by Falconbridge Ltd., Timmins, Ontario

SAMPLE NO.	GOLD PPB
6265	30
6266	40
6275	3620 3980
6276	6170 6170
second pulp	6030 6380
DPH, 6277	3020 2880
6280	280
6285	240
6286	50
6288	30
6289	100
6290	10
6291	80
DPH, 6292	10
6293	50
6294	150 160

Per G. Iebel  
G. Iebel, Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO, CANADA  
TELEPHONE (416) 642-3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 58204 Date: July 18, 1984  
Received July 10, 1984 87 Samples of split core  
Submitted by Falconbridge Mines Ltd., Timmins, Ontario Project-668 Att: B. Manch

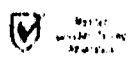
page 1 of 2

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	
6067	30	6101	100	6136	Nil	
6068	100	6102	120	6139	30	
6069	210	6103	300	6140	Nil	
6070	200	6104	80	6142	10	
6071	100	6107	190	6144	Nil	
6072	190	6110	350	6202	30	
6073	170		300	6207	180	
6074	180	6112	60	6208	210	
6075	450	6115	130		210	
6076	640	6117	10	6210	Nil	
	560	6119	80	6211	10	
<i>P.D.H. #7</i> 6077	220	<i>P.D.H. #5</i> 6120	60	<i>P.D.H. #9</i> 6216	40	
6078	180	6121	10	6217	30	
6079	640	6122	30	6218	20	
6080	80	6125	30	6219	10	
6081	100	6130	Nil	6221	Nil	
6083	100	6131	20	6225	10	
6095	100	6132	Nil	6226	10	
6099	200	6134	30	6228	Nil	
6100	350		30	<i>P.D.H. #8</i> 6230	Nil	
	310	6135	30		6232	Nil

con't...

General Manager

ESTABLISHED 1953







# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE (416) 442-3214  
ANALYTICAL CHEMISTS • METALLURGISTS • CONSULTANTS

## Certificate of Analysis

Certificate No. 58204 Date July 18, 1984

Received July 10, 1984 87 Samples of split core and whole core

Submitted by Falconbridge Mines Ltd., Timmins, Ontario Proj# 608 Attn: B. Manchuk

Page 2 of 2

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	
6234	30	D.D.# 1A 6305 ✓	30	
	30		6308 ✓	50
6236	Nil		50	
6239	10	D.D.# 24 6325	Nil	
6240	20		6326	Nil
6243	Nil		6327	Nil
6248	Nil		6328	170
6249	Nil			160
6250	Nil		6329	10
6251	Nil		6330	Nil
6253	10	6331	Nil	
	10		6332	30
6255	Nil		6333	Nil
D.D.# 8 6256	Nil			
6257	Nil			
6258	Nil			
6259	Nil			
6260	Nil			
6263	Nil			
D.D.# 1 6271	10			

*[Signature]*  
Manager





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

**BUYING**

Falconbridge Limited  
 979 rue de Bourgogne  
 Suite 310  
 Ste. Foy, Quebec  
 G1W 2L4 Att'n: Mr. J. Boissonneault

S  
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1.5% late charge over 30 days  
 (annual rate 18%)

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
July 31/84				P-668		Net 30 days	
QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT	
38	Au Assays				\$8.50	\$ 323.00	
38	Sample handling				2.75	104.50	
	Cert. No. 58290 July 26/84						
	B. Manchuk						
						SWASTIKA LABORATORIES LTD.  WITH THANKS TOTAL \$ 427.50	

MOORE BUSINESS FORMS 3 7060E

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS  
 ESTABLISHED 1928

FACTURE / INVOICE





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 58290

Date: July 26, 1984

Received July 22, 1984 38 Samples of split core

Submitted by Falconbridge Mines Limited, Timmins, Ontario

proj AP-668

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
6295	3290	6353	2500
	3910		6354
6296	550	6355	
	80		6356
6335	270	6357	
6337	1260		6358
6338	480	6359	
6339	990		6360
6340	710	6361	
6341	820		6362
6342	330	6363	
6344	520		6364
6345	70	6364	
6346	1930		6365
6347	1040	6366	
6348	7820		6367
6349	7410	6368	
second pulp	7540		6369
	7270	6370	
6350	2810		6371
6351	1150	6371	
6352	3260		damaged tag 490

Per G. Label  
G. Label, Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

**SOLD TO**

Falconbridge Limited  
979 rue de Bourgogne  
Ste. Foy, Quebec  
G1W 2L4

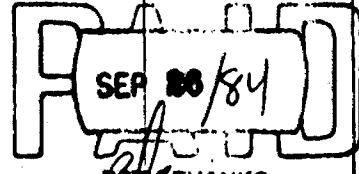
Att'n: Mr. J. Boissonneault

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1.5% late charge over 30 days  
(annual rate 18%)

DATE	SHIPPED VIA	FED. LICENSE NO.	PROV. LICENSE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	SALESMAN
Aug. 23/84				P-668		Net 30 days	
QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT	
77	Au Assays PPB				\$ 8.50	\$ 654.50	
77	Sample handling Cert. No. 58463 Aug. 21/84 B. Manchuk				2.75	211.75	
54	Au Assays PPB				8.50	459.00	
54	Sample handling Cert. No. 58469 Aug. 22/84 " "				2.75	148.50	
					<b>TOTAL ..</b>	<b>PER ..</b>	<b>2473.75</b>

SWASTIKA LABORATORIES LTD.



THANKS

MOORE BUSINESS FORMS 3 7060E

FACTURE / INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS  
ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

AUG 23 1984

Certificate No. 58463

Date: Aug. 21, 1984

Received Aug. 14, 1984 77 Samples of split core

Submitted by Falconbridge Limited, Timmins, Ontario proj#P-668 Att: B. Manchuk

page 1 of 2

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
6397	Nil	6419	110
6398	Nil	6420	100
6399	Nil	6421	20
6400	Nil	6422	60
6401	30	6425	30
6402	80	6426	50
6403	100	6431	10
	90	6432	50
6404	10	6434	10
6405	70	6435	10
6406	20	6436	Nil
6407	20	6437	Nil
6408	40	6438	40
6410	70		30
6411	60	6439	10
6413	30	6440	20
6414	40	6441	30
6416	30	6442	10
6417	150	6443	Nil
	120	6444	Nil
6418	40	6445	Nil

con't...

Per G. Label  
G. Label, Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 58463

Date: Aug. 21, 1984

Received Aug. 14, 1984 77 Samples of split core

Submitted by Falconbridge Limited, Timmins, Ontario proj#P-668 Att: B. Manchuk

page 2 of 2

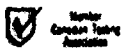
SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
6446	Nil	6465	20
6447	Nil	6466	30
6448	Nil	6467	20
6449	Nil	6468	10
6450	Nil	6469	10
6451	10	6470	20
6452	30	6471	20
6453	20	6472	10
6454	50	6473	50
6455	390		50
	340	6474	10
6456	40	6475	30
6457	150	6476	30
6458	Nil	6477	10
6459	Nil	6478	Nil
6460	Nil	6479	Nil
6461	20	6480	10
6462	540	6481	Nil
	460	6482	Nil
6463	50	6483	Nil
6464	10		

224  
10

224  
10

Per G. Lebel  
G. Lebel, Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 58469

Date: Aug. 22, 1984

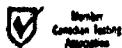
Received Aug. 15, 1984 - 54 Samples of split core

Submitted by Falconbridge Limited, Timmins, Ontario Att: B. Manchuk proj#668

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
6372	90	6392	30	6499	Nil
	80	6393	Nil	6500	Nil
6373	30	6394	20	6501	10
6374	40	6395	10	6502	Nil
6375	50	6396	Nil	6503	20
6376	10	6484	10	6504	Nil
6377	20	6485	10	6505	Nil
6378	Nil	6486	Nil	6506	Nil
6379	20	6487	10	6507	Nil
6380	10	6488	20	6511	1560
6381	Nil		20		1780
6382	100	6489	20	6512	1080
6383	Nil	6490	10	6513	2620
6384	70	6491	10	second pulp	2740
	70	6492	10	6514	430
6385	50	6493	20	6516	410
6386	20	6494	20		
6387	10	6495	10		
6388	10	6496	30		
6389	Nil		20		
6390	10	6497	30		
6391	110	6498	10		

Per G. Lebel  
G. Lebel, Manager

ESTABLISHED 1928





Ministry of  
Natural  
Resources

**Report of Work**  
(Geophysical, Geological,  
Geochemical and Expenditures)



41016SW0002 2.8485 HEENAN

900

Mining

DO NOT USE shaded areas below.

Type of Survey(s) ASSAYS - Expenditures Township or Area HEENAN-MARION N.T.S 41;0-16

Claim Holder(s) FALCON BRIDGE LTD. Prospector's Licence No. A-21647

Address 167 WILSON AVE, TIMMINS, ONT

Survey Company SWASTIKA AND X-RAY LABORATORIES Date of Survey (from & to) JUNE 8 84 August 84 Total Miles of line Cut

Name and Address of Author (of Geo-Technical report) BARRY MANCHUK, 167 Wilson Ave Timmins, Ont, P4N 2T2

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Electromagnetic	
	Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Radiometric	
	Other	
Men Days Complete reverse side and enter total(s) here	Geological	
	Geochemical	
	Geophysical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	
	Other	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
	619128	20			
	619129	20			
	619130	20			
	628434	20			
	628435	20			
	628436	20			
	628437	20			
	628438	20			
	628439	20			
	628440	20			
	568516	14.56			
	568517	60			
	568518	60			

RECEIVED  
SEP 26 1985

Expenditures (excludes power stripping)

Type of Work Performed ASSAYS on D.D.H'S

Performed on Claim(s) 557679, 557692, 557689, 557690  
619128, 628436, 628437, 555040

Calculation of Expenditure Days Credits

Total Expenditures \$ 5018.45 ÷ Total Days Credits 15 = 334.56

Total number of mining claims covered by this report of work. 13

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date Sept 25/85 Recorded Holder or Agent (Signature) BARRY MANCHUK

For Office Use Only

Total Days Cr. Recorded 15 Date Recorded SEP 25 1985 Mining Recorder

Date Approved as Recorded SEP 25 1985 Branch Director

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Reporting BARRY MANCHUK 167 WILSON AVE TIMMINS ONT



Mining Lands Section

File No 28485

Control Sheet

TYPE OF SURVEY           GEOPHYSICAL  
                                 GEOLOGICAL  
                                 GEOCHEMICAL  
                          ✓ EXPENDITURE

MINING LANDS COMMENTS:

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A. Hurst

Signature of Assessor

Oct 22/85

Date

*led*  
**H.D.**



**Report of Work**  
(Geophysical, Geological,  
Geochemical and Expenditures)

#340/85  
28485

Instructions: - Please type or print.  
- If number of mining claims traversed exceeds space on this form, attach a list.  
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.  
- Do not use shaded areas below.

Number of Survey(s) **ASSAYS - Expenditures** Township or Area **HOENAN-MARION N.T.S 41;0-16**

Claim Holder(s) **FALCON BRIDGE LTD.** Prospector's Licence No. **A-21647**

Address **167 WILSON AVE, TIMMINS ONT**

Survey Company **SWASTIKA AND X-RAY LABORATORIES** Date of Survey (from & to) **JUNE 8 84** to **AUGUST 84** Total Miles of line Cut

Name and Address of Author (of Geo-Technical report) **BARRY MANCHUK, 167 WILSON AVE, TIMMINS, ONT, P4W 2T2**

Credits Requested per Each Claim in Columns at right

Special Provisions For first survey: Enter 40 days. (This includes line cutting)  For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits <b>MINING LANDS SECTION</b>	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
	619128	20			
	619129	20			
	619130	20			
	628434	20			
	628435	20			
	628436	20			
	628437	20			
	628438	20			
	628439	20			
	628440	20			
	568516	14.56			
	568517	60			
	568518	60			

**RECEIVED**  
OCT 15 1985

**RECORDED**  
SEP 26 1985

**RECEIVED**  
SEP 26 1985  
PORCUPINE MINING DIVISION

Expenditures (excludes power stripping)

Type of Work Performed **ASSAYS on D.O.H.'S** (Sect. 77-19)

Performed on Claim(s) **554679, 554692, 554689, 554690**  
**619128, 628436, 628437, 555040**

Calculation of Expenditure Days Credits

Total Expenditures		Total Days Credits
\$ 5018.45	÷ 15	= 334.56

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Registrar
334.56	SEP 26 1985	<i>[Signature]</i>
	Date Approved as Recorded	Branch Director
	1985.10.22	<i>[Signature]</i>

Date **Sept 25/85** Recorded Holder or Agent (Signature) *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying **BARRY MANCHUK, 167 WILSON AVE, TIMMINS ONT**  
**P4W 2T2**

Date Certified **Sept 25/85** Certified by (Signature) *[Signature]*

1985 10 07

File: 2.8485

Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

We received Data for Assaying on September 30, 1985 submitted under Section 77(19) of the Mining Act R.S.O. 1980 for Mining Claims P 610128, et al, in Henan and Marion Townships.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-4888

AB/mc

cc: Falconbridge Ltd  
167 Wilson Avenue  
Timmins, Ontario  
P4N 2T2

28485

554679

✓

692

✓

689

✓

690

✓

619128

✓

628436

✓

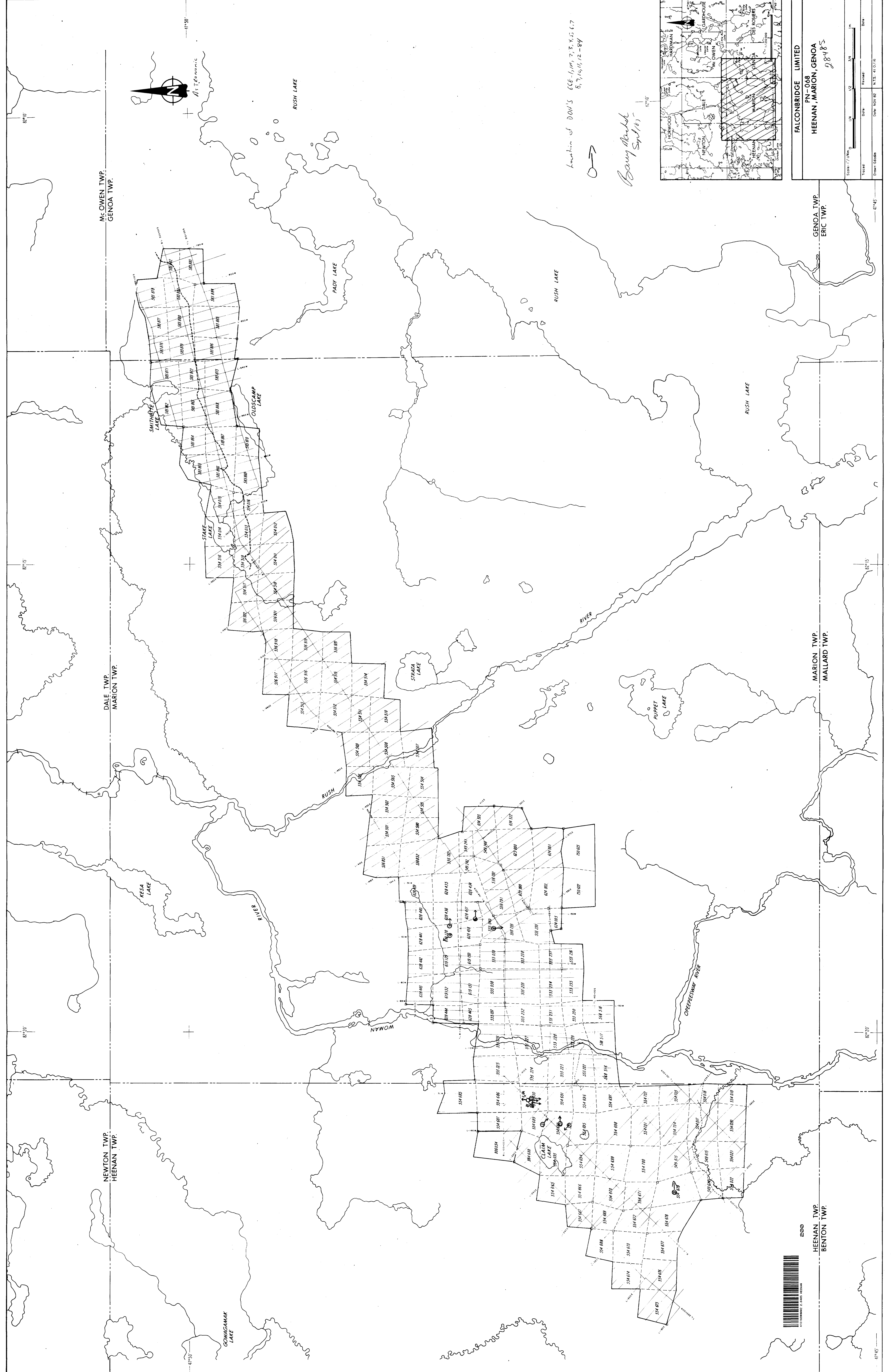
437

✓

555040

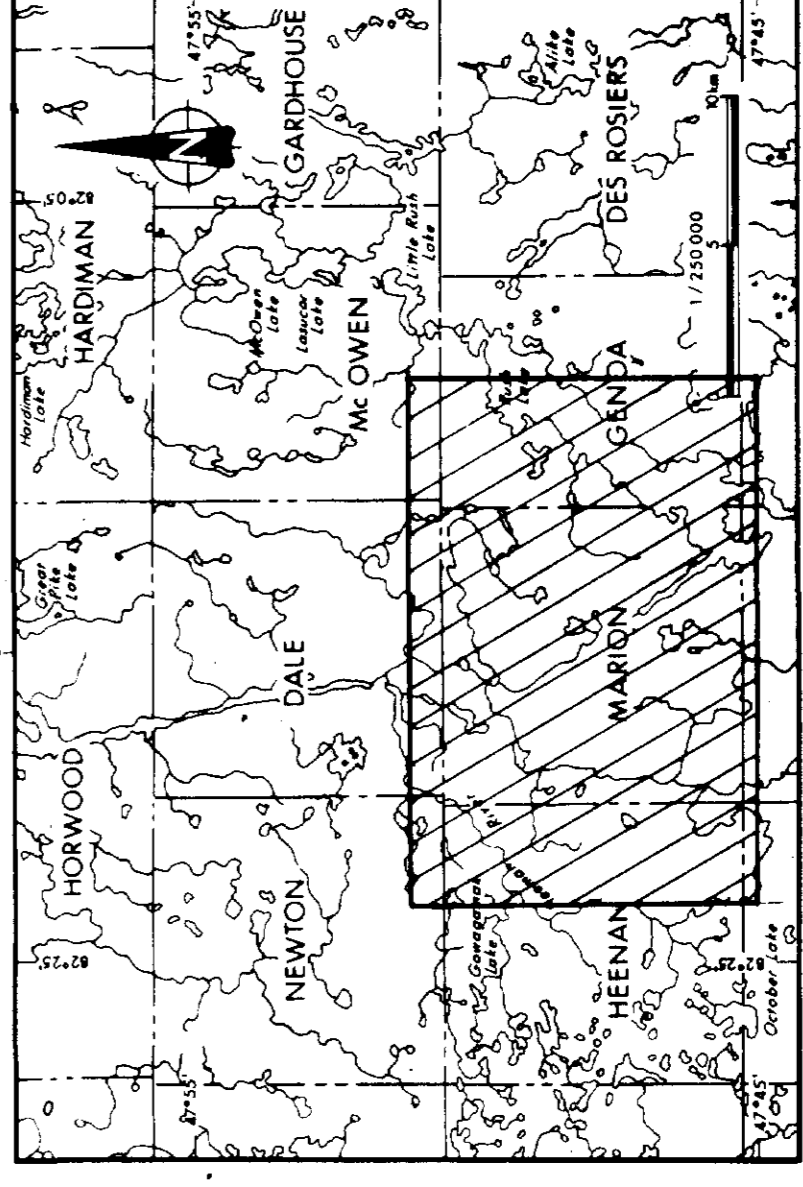
✓

φ



Location of DON'S (SEE 1, 10, 2, 3, 4, 5, 6, 7  
5, 7, 10, 11, 12 - 84)

*Bany Marble*  
Spt/1/85



**FALCONBRIDGE LIMITED**  
 PN-068  
 HEENAN, MARION, GENOA  
 9848

Scale 1" = 400' 0"

North Arrow

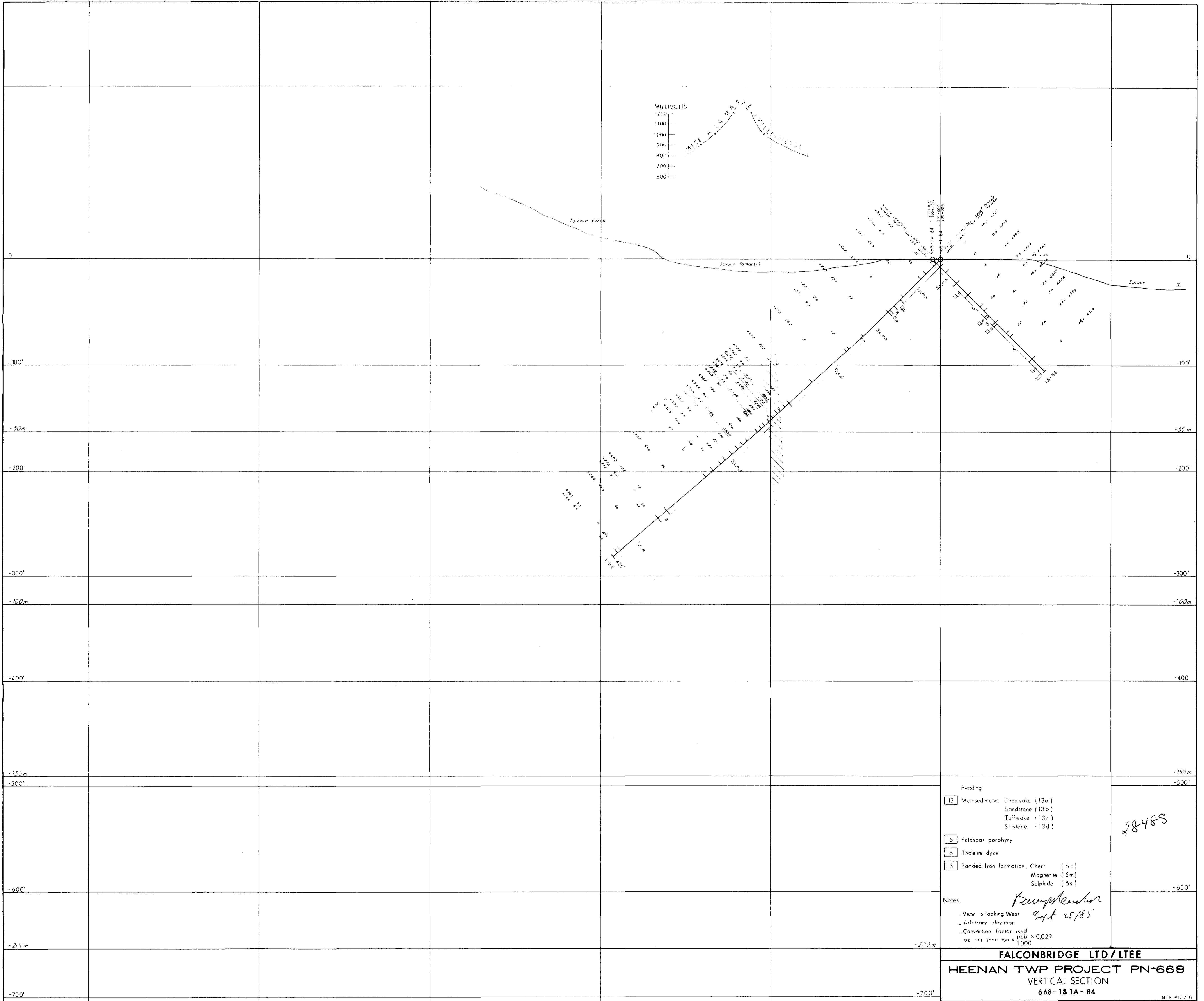
Date: NOV 82  
 Drawn: GLOM

200

HEENAN TWP.  
 BENTON TWP.

HEENAN TWP.  
 MARION TWP.  
 MALLARD TWP.

87°45'



- 12 Metosediments: Greswacke (13a)  
 Sandstone (13b)  
 Tuffwacke (13c)  
 Siltstone (13d)
- 8 Feldspar porphyry
- 7 Trolite dyke
- 5 Banded Iron formation, Chert (5c)  
 Magnetite (5m)  
 Sulphide (5s)

Notes:  
 View is looking West  
 - Arbitrary elevation  
 - Conversion factor used  
 oz per short ton =  $\frac{ppb}{1000} \times 0.029$

28485

**FALCONBRIDGE LTD / LTEE**

**HEENAN TWP PROJECT PN-668**

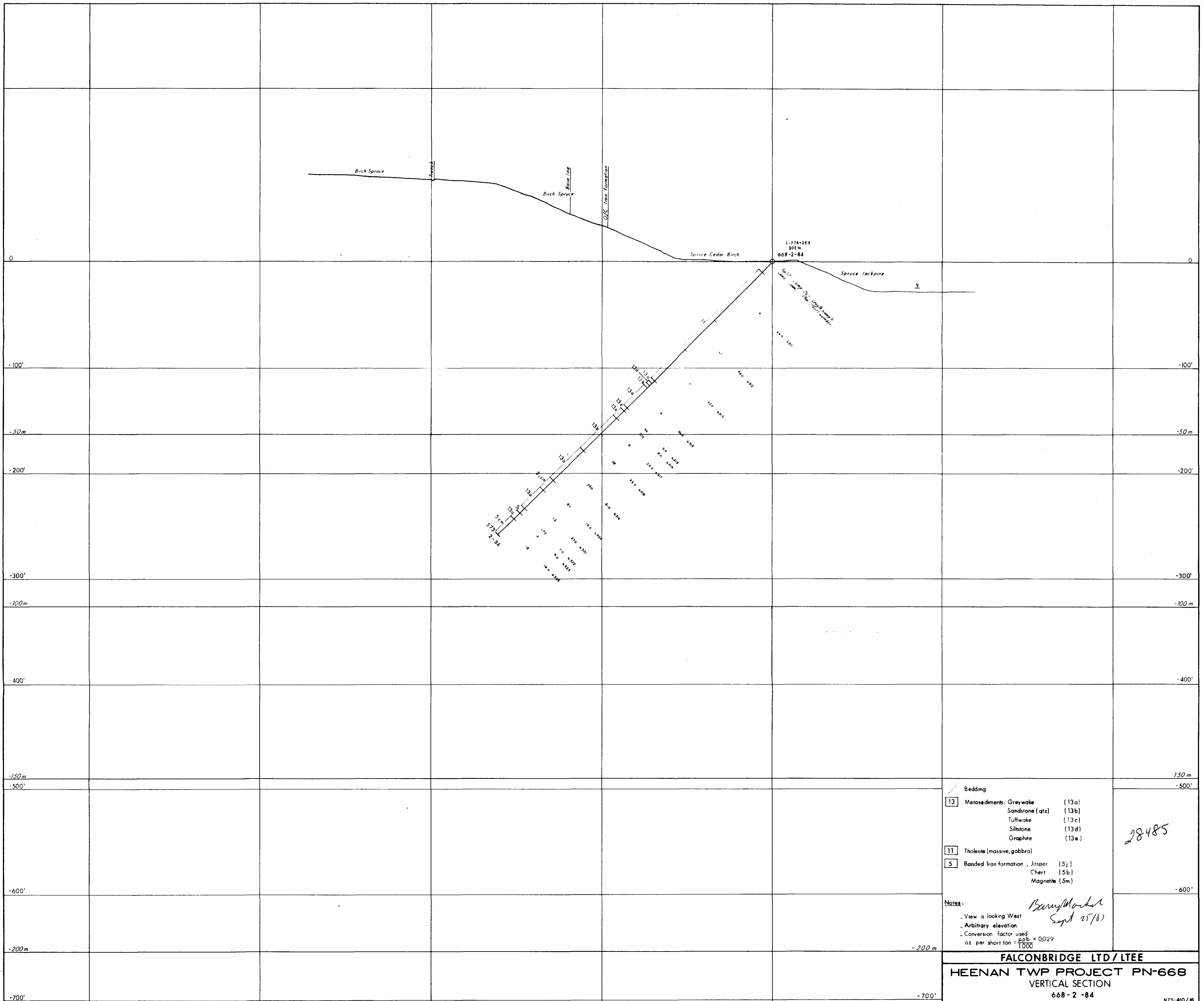
**VERTICAL SECTION**

**668-1&1A-84**

NTS-410/16

Tracé par: B. Monchuck	Date:	Révisé par:	Date:
Supervisé par: B. Monchuck		Revisé by:	
Dessiné par: Géodés		Scale: 1:500	Echelle: 1:500
Drawn by: Géodés			





- Bedding
- 13 Metasediments: Greywacke (13a)  
Sandstone (qtz) (13b)  
Tuffwacke (13c)  
Siltstone (13d)  
Graphite (13e)
- 11 Tholentite (massive, gabbro)
- 5 Banded Iron formation, Jasper (5j)  
Chert (5b)  
Magnetite (5m)

28485

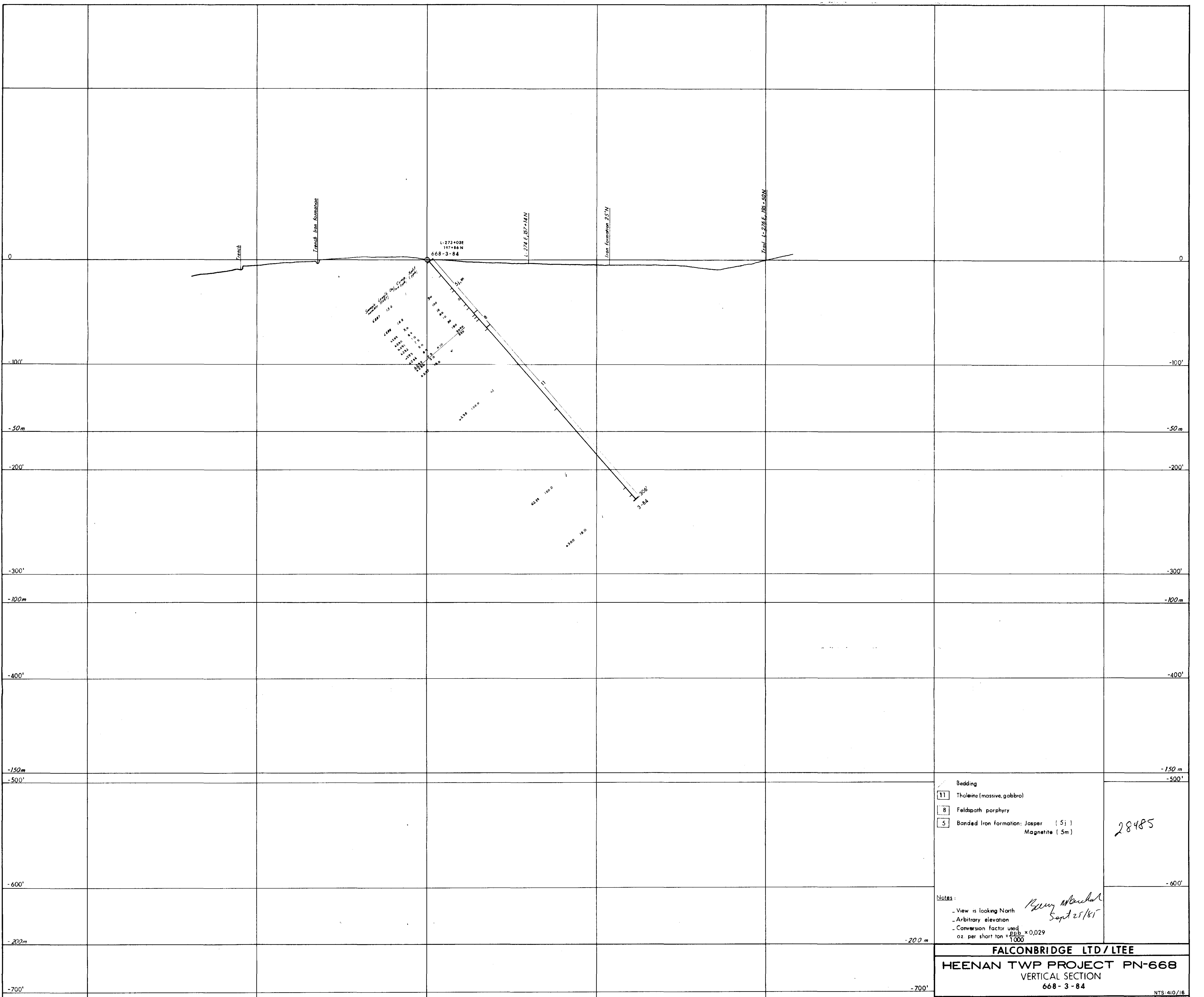
Notes:  
 - View is looking West  
 - Arbitrary elevation  
 - Conversion factor used  
 oz per short ton =  $\frac{ppb}{1000} \times 0.029$

*Benny Mocher*  
 Sept 25/81

**FALCONBRIDGE LTD/LTEE**  
**HEENAN TWP PROJECT PN-668**  
**VERTICAL SECTION**  
**668-2-84**

Traced by: B. Manchuck	Date	Revised per:	Date
Supervised by: B. Manchuck		Scale:	1:500
Dessiné par: Géodés		Echelle:	25m





- Bedding
- 11 Tholeiite (massive, gabbro)
  - 8 Feldspath porphyry
  - 5 Banded Iron formation: Jasper (5')
  - Magnetite (5m)

28485

Notes:

- View is looking North
- Arbitrary elevation
- Conversion factor used  $\frac{oz.}{short\ ton} = \frac{2.2046}{1000} \times 0.029$

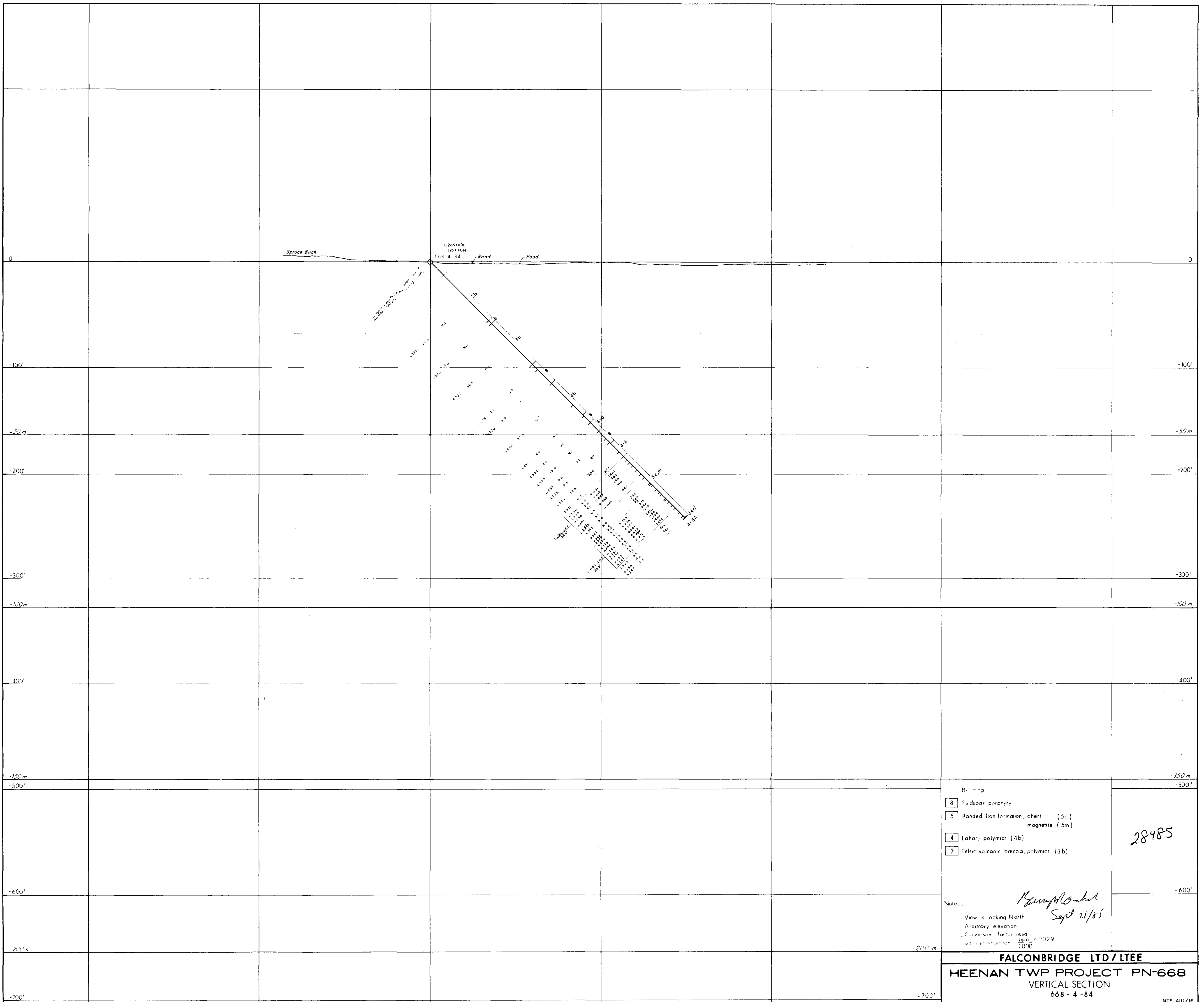
*Barry Manchuck*  
Sept 25/85

**FALCONBRIDGE LTD/LTEE**  
**HEENAN TWP PROJECT PN-668**  
 VERTICAL SECTION  
 668-3-84

Tracé par: B. Manchuck	Date	Révisé par:	Date
Supervisé par: B. Manchuck	Scale: 1:500	Echelle: 1:500	25m
Dessiné par: Géodés	NTS: 410/16		







- Building
- 8 Feldspar porphyry
  - 5 Banded iron formation, chert (5c)  
magnetite (5m)
  - 4 Lahar, polymict (4b)
  - 3 Felsic volcanic breccia, polymict (3b)

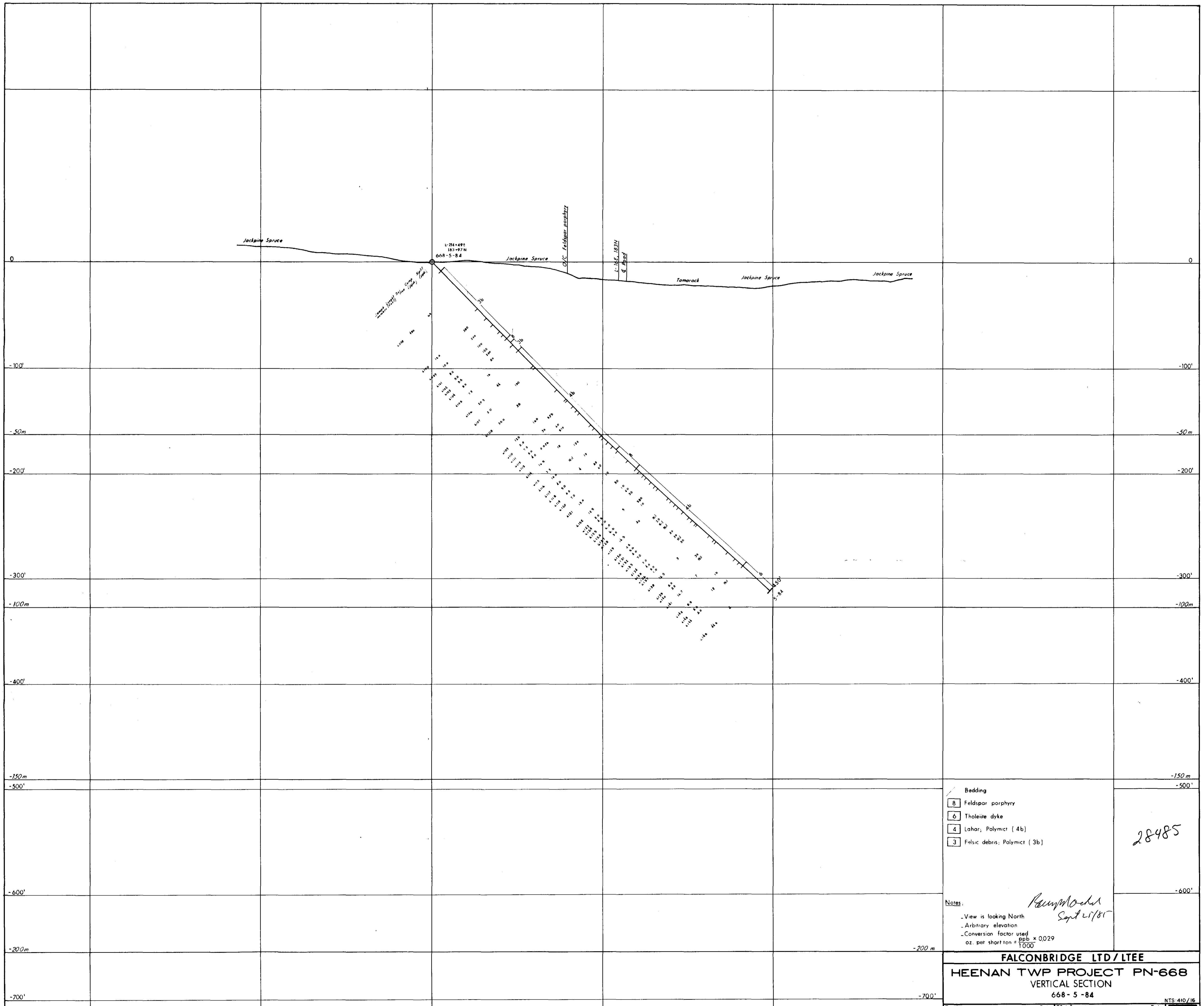
28485

Notes:  
 View is looking North  
 Arbitrary elevation  
 Conversion factor used  
 1:500 = 1000

**FALCONBRIDGE LTD / LTEE**  
**HEENAN TWP PROJECT PN-668**  
 VERTICAL SECTION  
 668 - 4 - 84

Traced par: B. Monchuck	Date	Revised par:	Date
Supervised par: B. Monchuck	Scale: 1:500	Echelle: 1:500	25m
Dessiné par: Géodés	NTS 410/16		





- Bedding
- 8 Feldspar porphyry
  - 6 Tholeiite dyke
  - 4 Lahar, Polymict (4b)
  - 3 Felsic debris, Polymict (3b)


Notes:

- View is looking North
- Arbitrary elevation
- Conversion factor used  
oz. per short ton =  $\frac{336}{1000} \times 0.029$

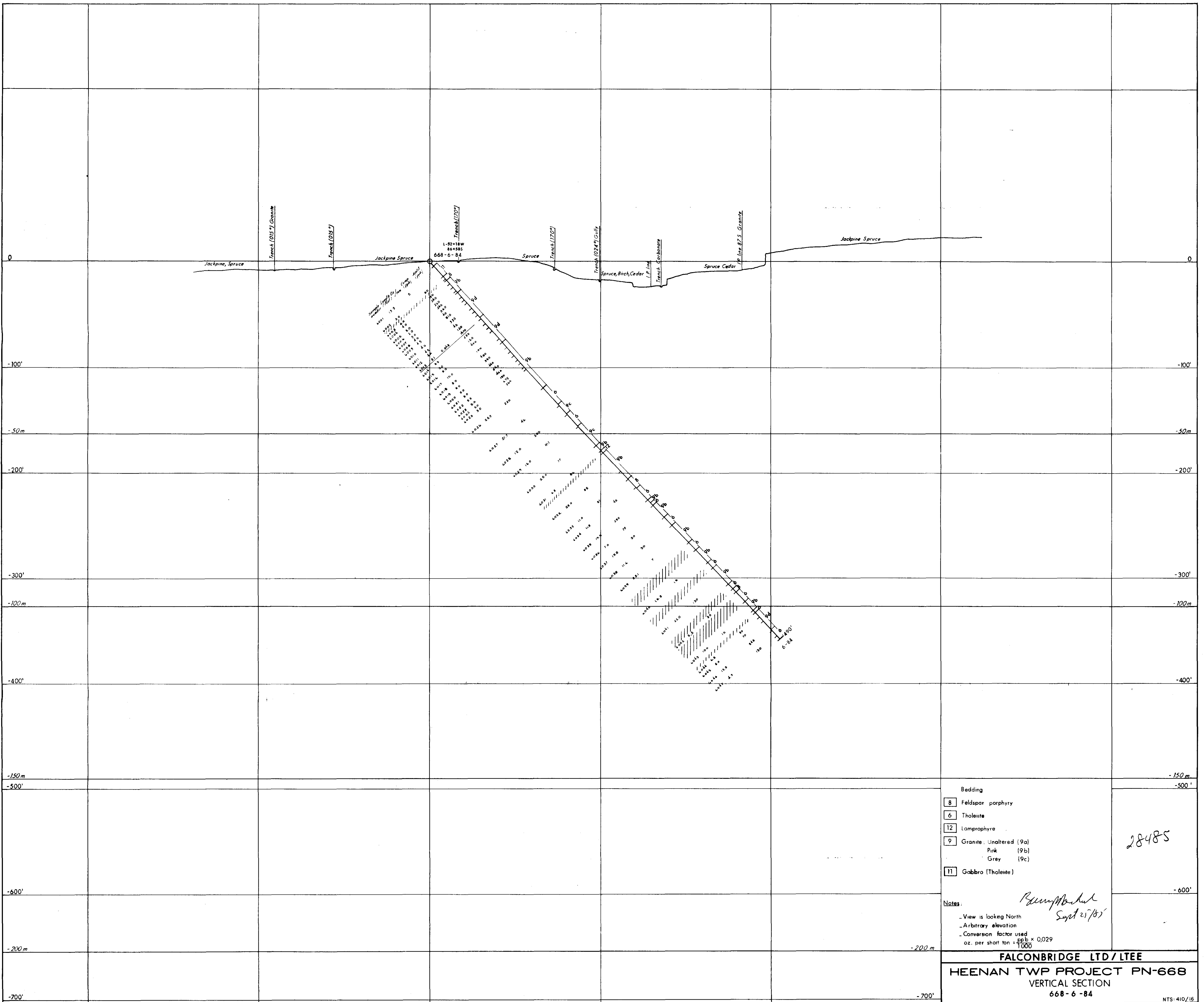
*RampMochel*  
Sept 21/85

28485

**FALCONBRIDGE LTD/LTEE**  
**HEENAN TWP PROJECT PN-668**  
 VERTICAL SECTION  
 668-5-84

Traced by: B. Manchuck	Date: _____	Revised by: _____	Date: _____
Supervised by: B. Manchuck	Scale: 1:500	Echelle: 25m	
Dessiné par: Géodés	Drawn by: _____		





- Bedding
- 8 Feldspar porphyry
  - 6 Tholeiite
  - 12 Lamprophyre
  - 9 Granite, Unaltered (9a)  
Pink (9b)  
Grey (9c)
  - 11 Gabbro (Tholeiite)

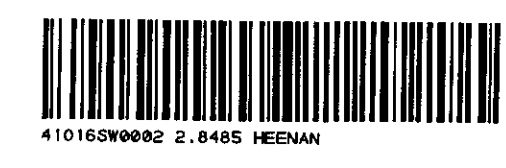
Notes:

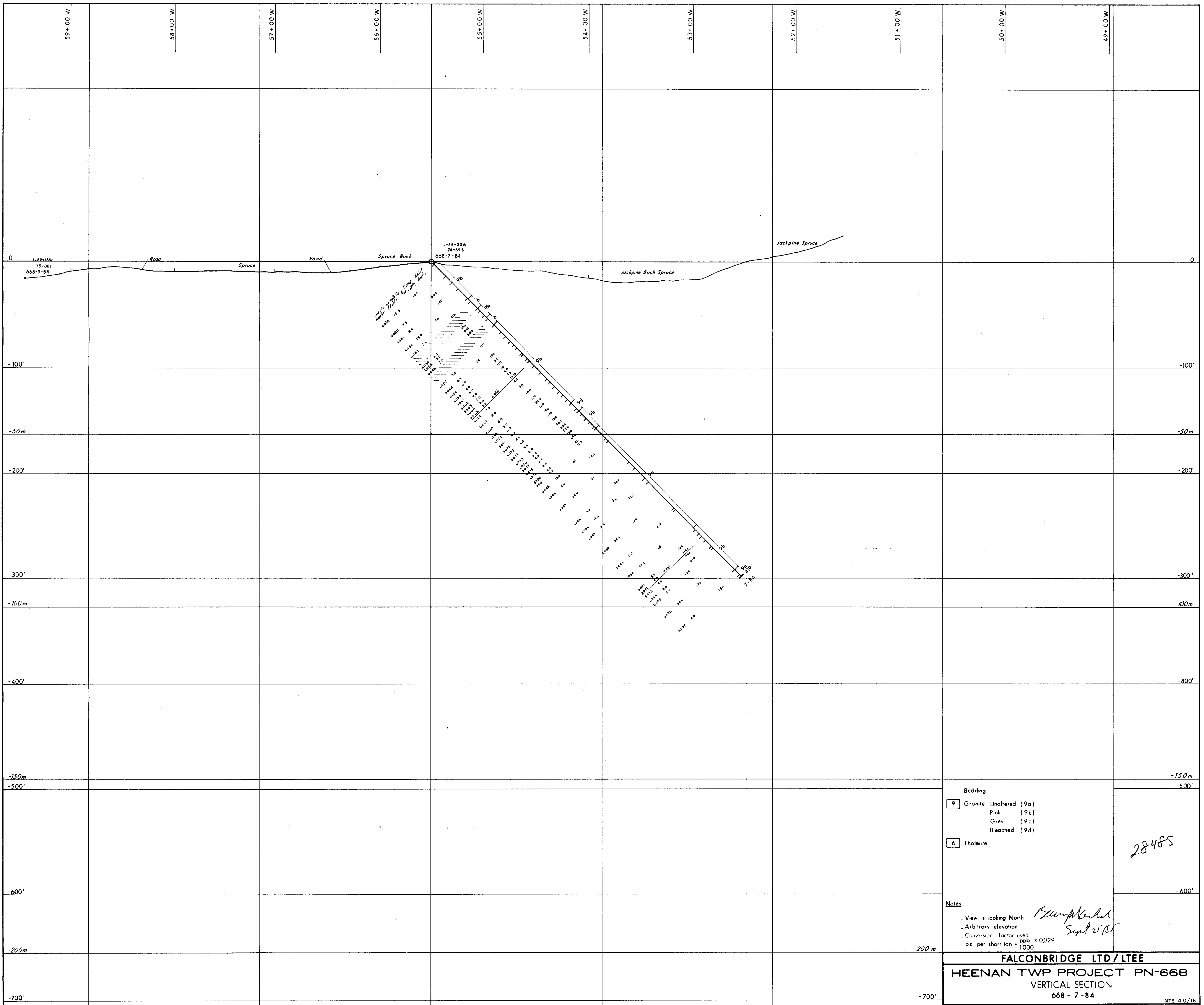
- View is looking North
- Arbitrary elevation
- Conversion factor used  
oz. per short ton =  $\frac{35.23}{1000} \times 0.029$

28485

**FALCONBRIDGE LTD / LTEE**  
**HEENAN TWP PROJECT FN-668**  
**VERTICAL SECTION**  
 668-6-84

Traced by: B. Manchuck	Date: _____	Revised by: _____	Date: _____
Supervised by: B. Manchuck	Scale: 1" = 500'		Echelle: 25m
Dessiné par: G. Godes	Drawn by: G. Godes		NTS: 410/16





Bedding

9 Granite; Unaltered (9a)  
 Pink (9b)  
 Grey (9c)  
 Bleached (9d)

6 Tholeiite

Notes:

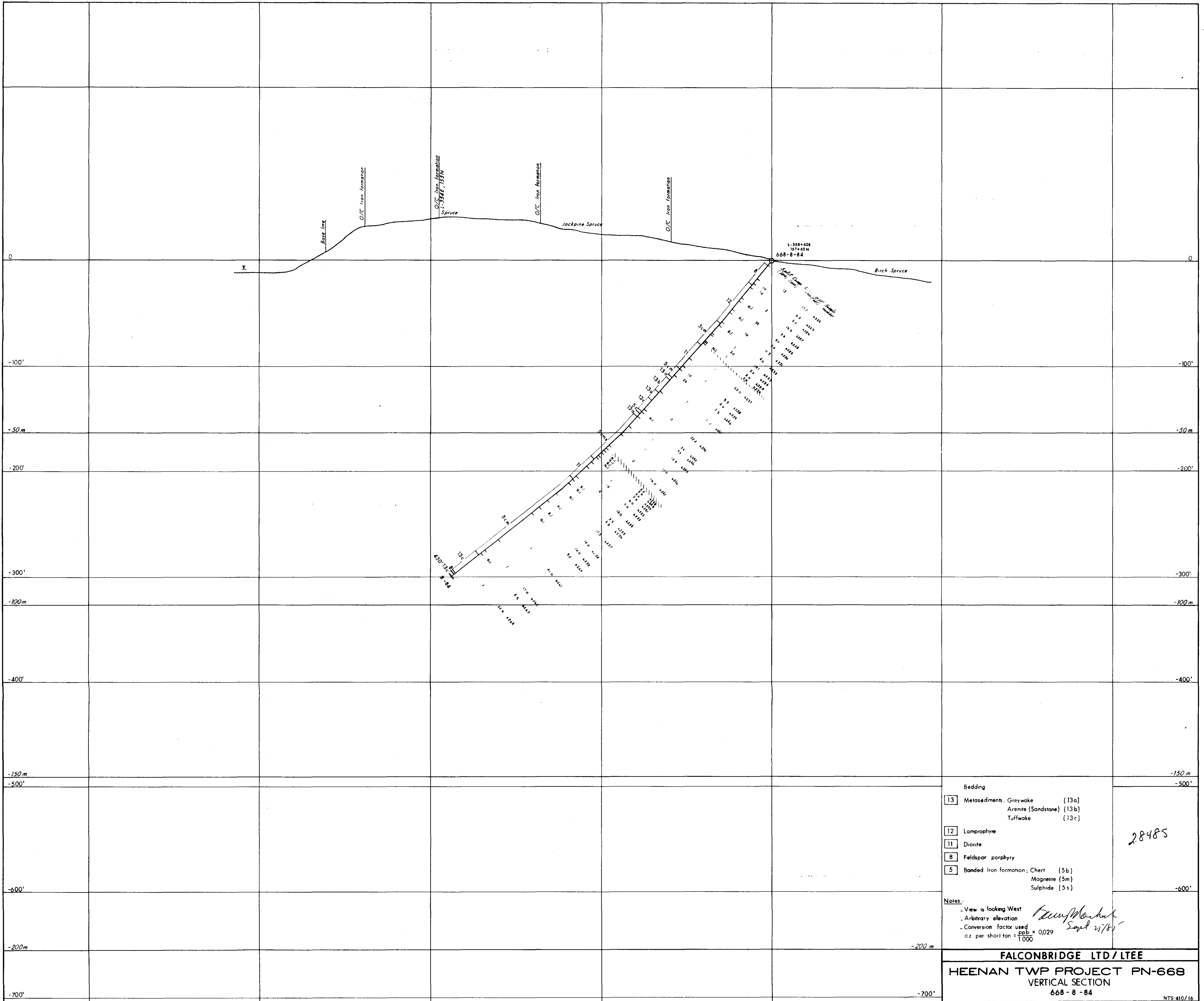
View is looking North *Bump/Manchuck*  
 Arbitrary elevation  
 Conversion factor used  $\frac{ppb}{oz} \times 0.029$   
 oz per short ton =  $\frac{ppb}{1000}$

28485

**FALCONBRIDGE LTD / LTEE**  
**HEENAN TWP PROJECT PN-668**  
 VERTICAL SECTION  
 668 - 7 - 84

Track par: B. Manchuck	Date	Révisé par:	Date
Traced by:		Revised by:	
Supervisé par: B. Manchuck	Scale: 1" = 500'	Echelle: 1" = 500'	
Dessiné par: Géodés			
Drawn by:			





Bedding		
13	Metasediments: Greywacke	(13a)
	Arenite (Sandstone)	(13b)
	Tuffwacke	(13c)
12	Lamprophyre	
11	Diorite	
8	Feldspar porphyry	
5	Banded Iron formation: Chert	(5b)
	Magnete	(5m)
	Sulphide	(5s)

Notes:

- View is looking West
- Arbitrary elevation
- Conversion factor used:  $PPB \times 0.029$  oz per short ton = 1000

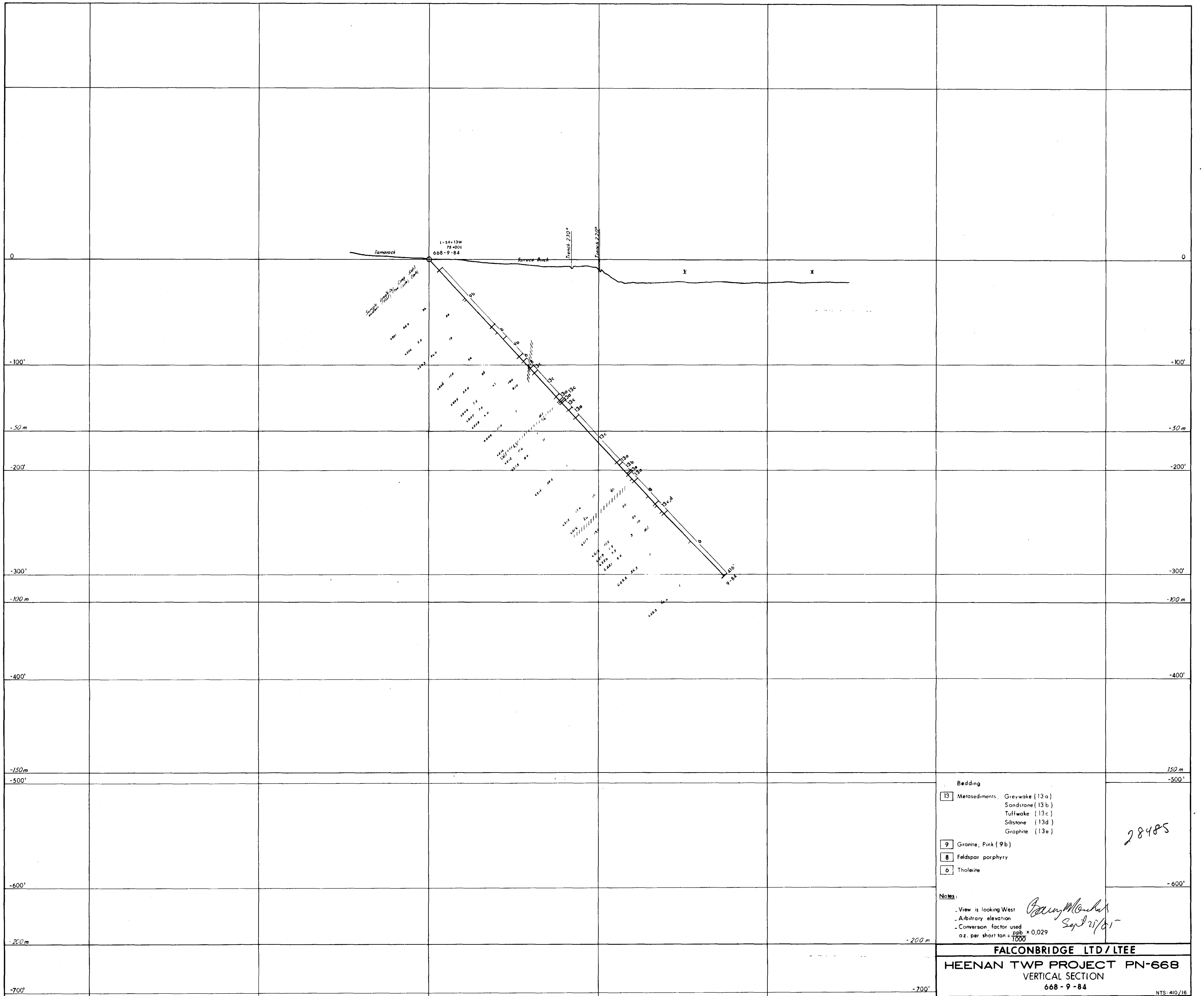
*Benj. Manchuck*  
Sept 21/85

28485

**FALCONBRIDGE LTD / LTEE**  
**HEENAN TWP PROJECT PN-668**  
**VERTICAL SECTION**  
 668-8-84

Traced by: B. Manchuck	Date:	Revised by:	Date:
Supervised by: B. Manchuck	Scale: 1:500	Echelle: 25p	
Dessiné par: Géodés	NTS 410/16		





**Bedding**

- 13 Metasediments, Greywacke (13a)
- Sandstone (13b)
- Tuffwacke (13c)
- Siltstone (13d)
- Graphite (13e)

9 Granite, Pink (9b)

8 Feldspar porphyry

6 Tholeiite

**Notes:**

- View is looking West
- Arbitrary elevation
- Conversion factor used:  $\frac{oz}{lb} \times 0.029$
- oz. per short ton = 1600

*Benny Manckuck*  
Sept 25/01

28485

**FALCONBRIDGE LTD / LTEE**

**HEENAN TWP PROJECT PN-668**

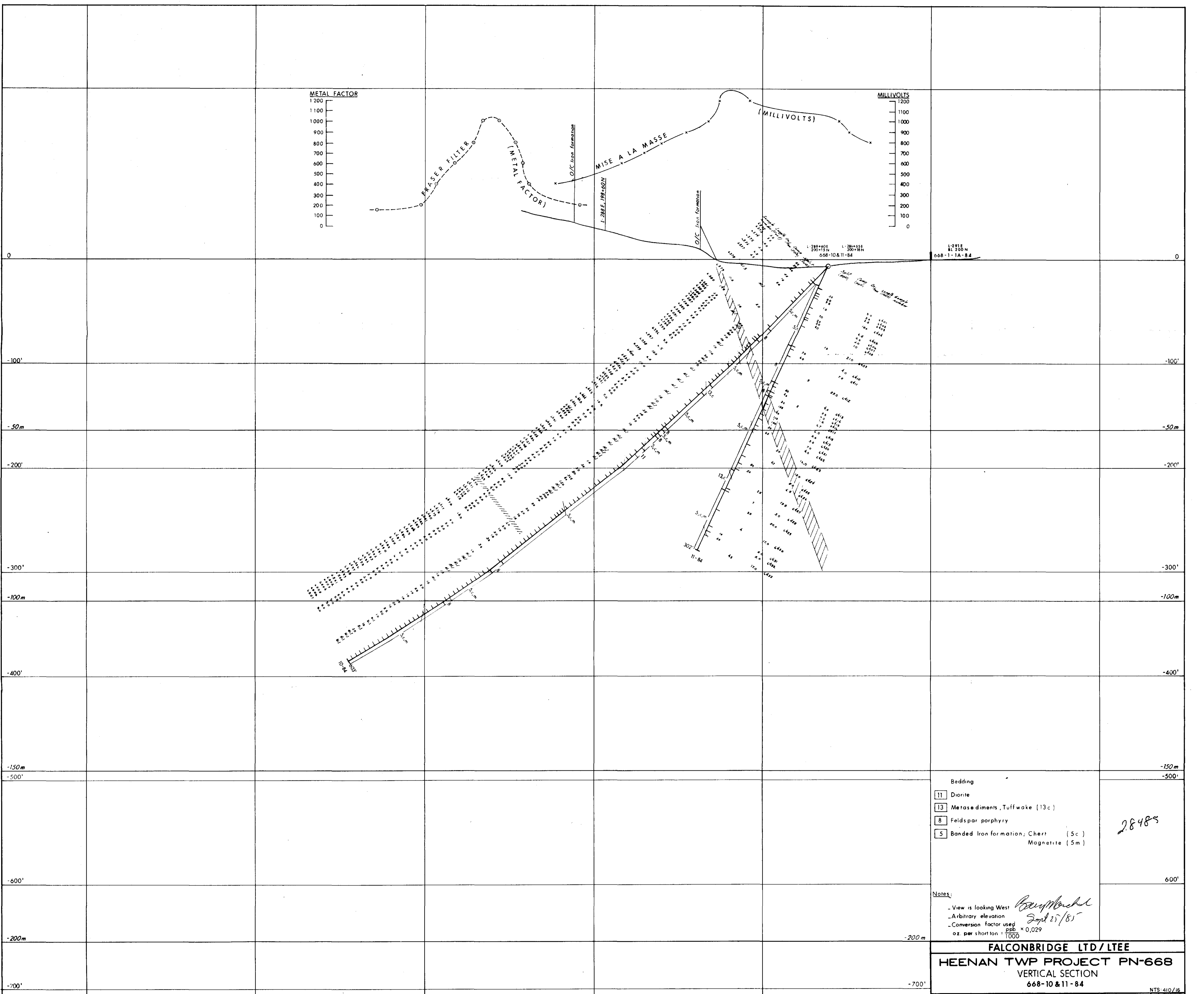
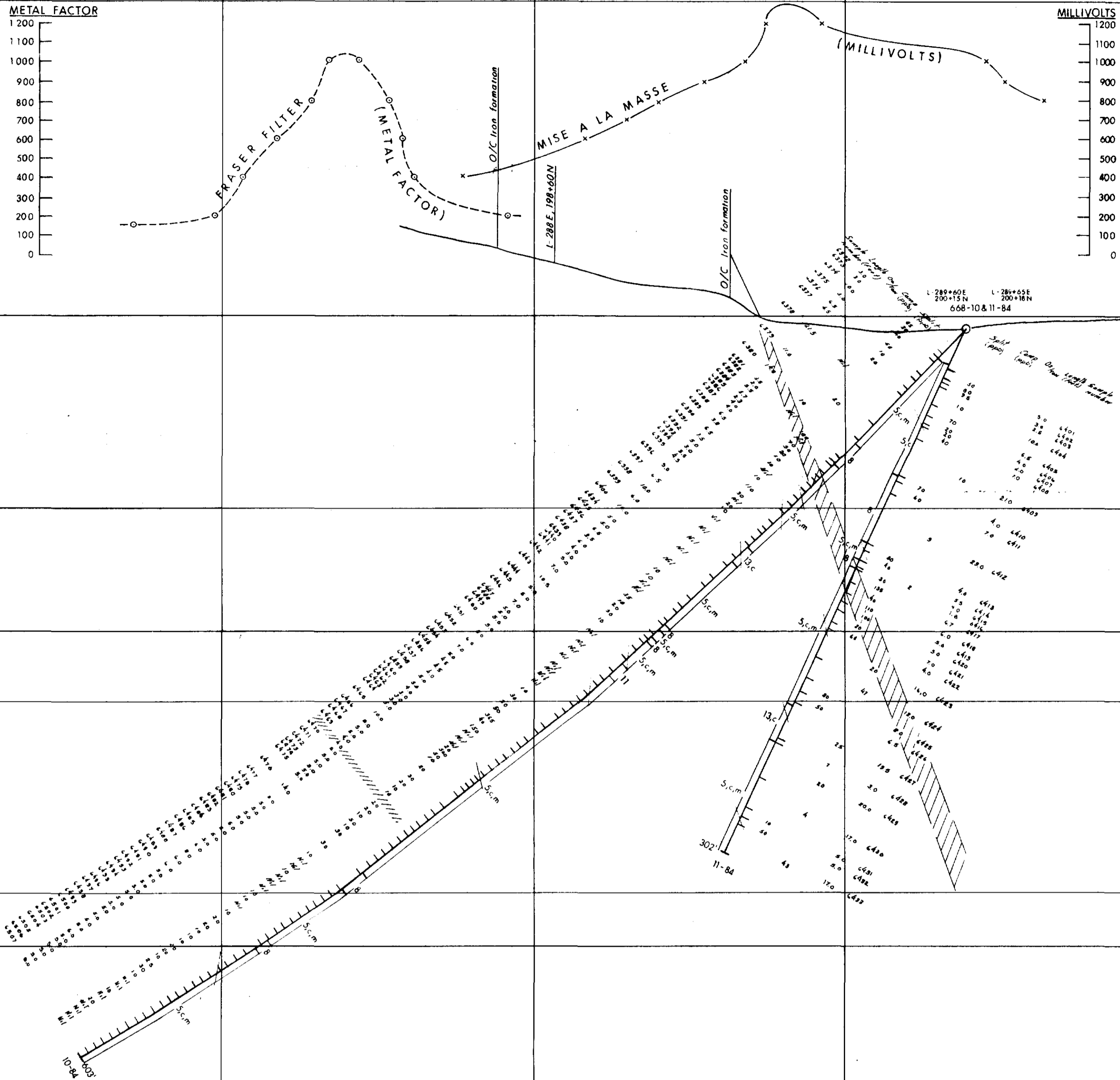
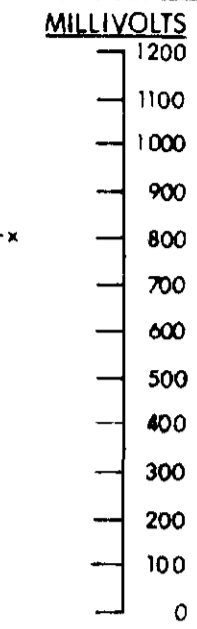
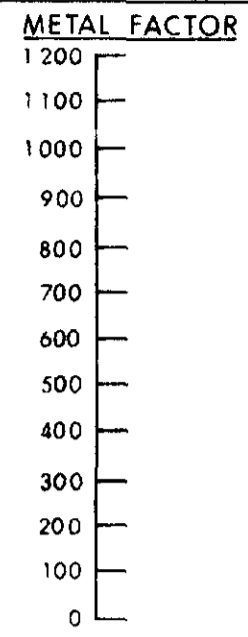
**VERTICAL SECTION**

**668 - 9 - 84**

NTS: 410/16

Traced by: B. Manckuck	Date:	Revised by:	Date:
Supervised by: B. Manckuck		Revised by:	
Drawn by: G. Godes	Scale: 1: 500	Echelle: 1: 500	





- Bedding
- 11 Diorite
  - 13 Metasediments, Tuffwacke (13c)
  - 8 Feldspar porphyry
  - 5 Banded Iron formation: Chert (5c)  
Magnetite (5m)

28485

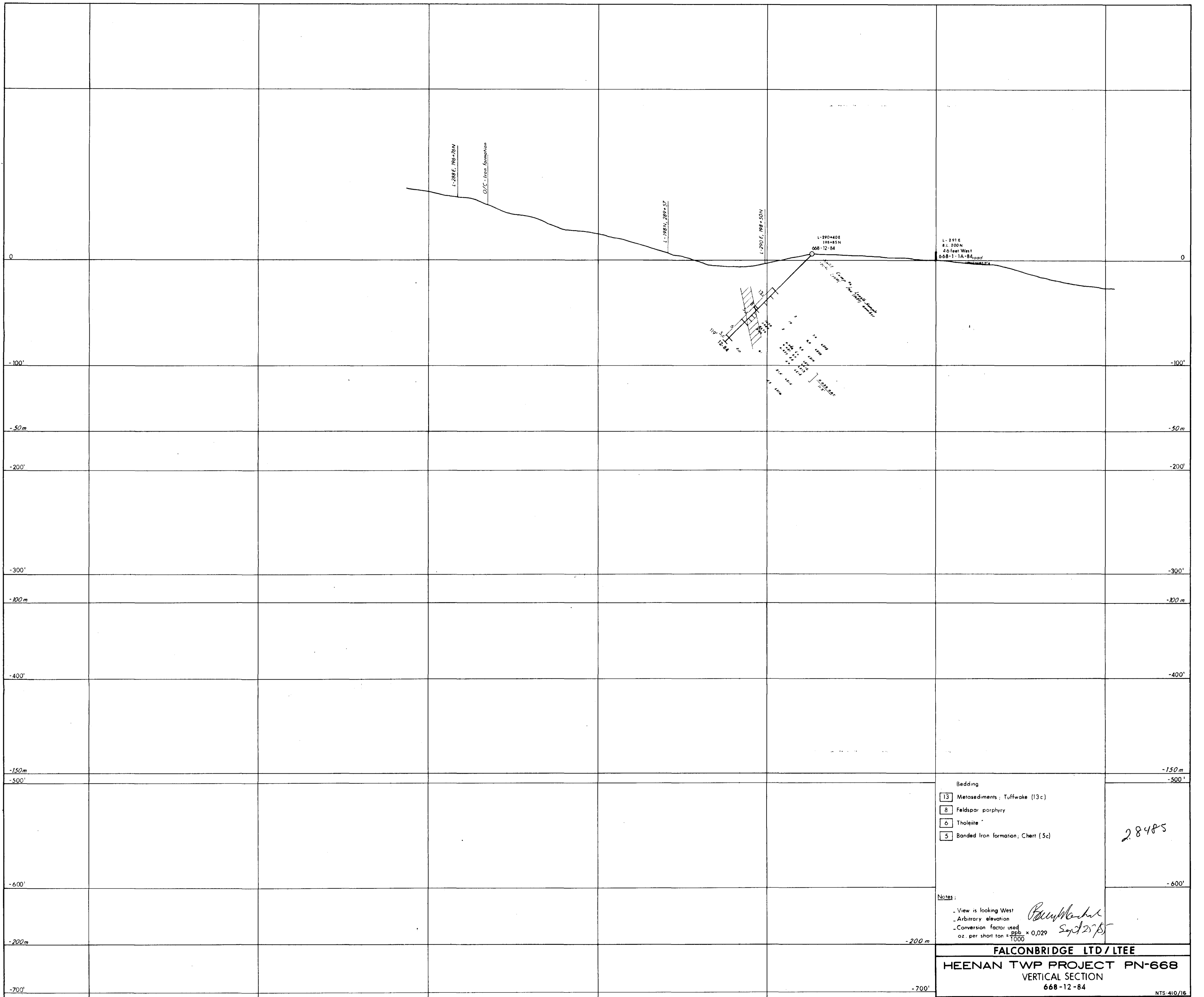
Notes:

- View is looking West
- Arbitrary elevation
- Conversion factor used:  $\frac{ppb}{oz. per short ton} \times 0,029$

FALCONBRIDGE LTD / LTEE  
HEENAN TWP PROJECT PN-668  
VERTICAL SECTION  
668-10 & 11-84

Traced par: B. Manchuck	Date	Revised par:	Date
Supervised par: B. Manchuck	Scale: 1:500	Echelle: 1:500	Scale: 1:500
Drawn by: Géodés			





Bedding

- 13 Metasediments; Tuffwake (13c)
- 8 Feldspar porphyry
- 6 Tholeiite
- 5 Banded iron formation; Chert (5c)

Notes:

- View is looking West
- Arbitrary elevation
- Conversion factor used:  $\frac{\text{ppb}}{1000} \times 0.029$  Sept 27/85
- oz. per short ton =  $\frac{\text{ppb}}{1000}$

28485

**FALCONBRIDGE LTD / LTEE**  
**HEENAN TWP PROJECT PN-668**  
**VERTICAL SECTION**  
**668-12-84**

Track par: B. Monchuck	Date	Révisé par:	Date
Traced by: B. Monchuck		Revised by:	
Supervised par: B. Monchuck		Scale:	1:500
Dessiné par: Géodás		Echelle:	1:500
Drawn by: Géodás			

