

EXPLORATION INCENTIVE PROGRAM

EIP 87012

DRILL AND BULK TEST PROGRAM ON
MONTANA CREEK

LEASE JANINE #7434

PLACER SHEET 115-0-10d

139° 00' LONGITUDE X 63° 37' LATITUDE

GRANT #P29721 - P29723, 7434

LOCATION - 115011

SUPERVISION WAS CONDUCTED BY

EARL CHESNEY AND JACK RIVEST

FOR

RIVEST BROS. ENTERPRISES (1977) LTD.

FROM

JULY 1 - 15, 1987

EXPLORATION INCENTIVE PROGRAM EIP - 87012

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December 14, 1987

The Department of Economic Development
Mines and Small Business
Government of Yukon
P.O. Box 2703
Whitehorse, Yukon
Y1A 2C6

ATTN: MR. DAVID D. DOWNING
MINING DEVELOPMENT OFFICER

Dear Sir:

Re: Exploration Incentive Program - EIP 87012

Enclosed are our expenditures for the above Exploration Incentive Program that we conducted from July 1 - 15, 1987. We thank you for your help with the program.

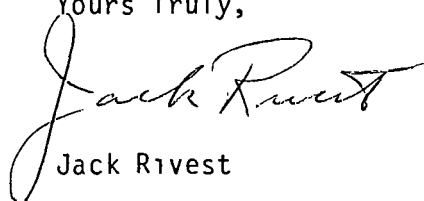
Rivest Bros. Enterprises (1977) Ltd. is pleased to forward to you a copy of our company brochure.

We have been involved as a corporate member in the oil industry since 1971, but our experience in the Placer Mining Industry only relates since 1984. Our interest started in B.C. in 1984 as a hobby and it was not until we ventured to the Yukon that we became serious about placer mining.

By combining our background from the oil industry with the knowledge and experiences that have been acquired from Yukon miners, we feel we can successfully develop a placer mining operation.

Thank you for your time and advise concerning the Montana Creek Exploration Incentive Program.

Yours Truly,



Jack Rivest

JR/fb
Encl.

RATE SHEET

EQUIPMENT - JUNE 23 - JULY 22, 1987

<u>QTY</u>	<u>DESCRIPTION</u>	<u>RATE</u>
1	3 Ton GMC & 300 Amp Welder	\$ 1,000.00/Month
1	180 Amp Welder & Tool Service Trailer	\$ 500.00/Month
1	Parts Van	\$ 500.00/Month
1	Camp 10x28 Atco Type	\$ 1,000.00/Month
1	8x21 Travellair House Trailer	\$ 500.00/Month
1	Four Person Tent Trailer	\$ 200.00/Month
2	4x4 Ford 3/4 Ton Trucks @\$1500.00/Mth	\$ 3,000.00/Month
1	Lister Gen. Set for Camp	\$ 600.00/Month
2	200 Honda ATC 2 Wheelers @ \$50.00/Day	\$ 3,000.00/Month
1	Mill Spex Concentrator	\$ 1,000.00/Month
2	Honda 2500 Gen Sets (standby)	\$ 200.00/Month
2	3" Honda Pumps for Bulk Test Programs	\$ 800.00/Month
1	Trommel - 25-30 yd per hour Test Plant	\$ 1,000.00/Month
1	8x20 Track Wagon Unit	\$ 1,000.00/Month
1	8x20 Flat Deck Trailer	\$ 1,200.00/Month
1	8x14 Flat Deck Trailer	\$ 900.00/Month
1	LeRoi Compressor 135 CFM	\$ 1,200.00/Month
1	J.S.W. 45 Back Hoe	\$10,000.00/Month
1	941 Cat Track Loader with Rotary Drill mounted on 941	\$10,000.00/Month
	TOTAL	<u>\$37,600.00</u>

Equipment was committed to the project for one month

(the equipment had to be mobilized to the project one week prior to the project and demobilization).

ENCLOSED ARE RECEIPTS OF EXPENSES OCCURRED ON MONTANA CREEK

1. Legal

Contract by Cable Veak & Morris \$ 467.80

By accepting to do the mining on
property according to Contract \$ 500.00

\$ 967.80

Not Allowed

2. Fuel

Mackenzie

Gas	1090.36	Diesel	788.01
	1453.50		867.30
	<u>2543.86</u>		<u>1655.31</u>

Chevron

Gas	63.75
	64.59
	37.00
	57.00
	64.00
	118.35
	<u>404.69</u>

Total Gas	\$ 2,948.55
Total Diesel	\$ 1,655.31

3. Two 100 lb Propane bottles for Camp
@ \$45.00 ea. \$ 90.00

4. Mobilization - June 30, 1987 \$ 1,600.00

Demobilization - July 15, 1987 \$ 3,300.00

TOTAL EXPENSES \$10,561.66

INVOICE
CABLE, VEALE & MORRIS

BARRISTERS & SOLICITORS

Thomas Morgan
Pelly Road
Whitehorse, Y.T.
Y1A 4L9

THE DRURY BUILDING
3081 THIRD AVENUE
WHITEHORSE, YUKON
Y1A 4Z7
PHONE (403) 668 4405

DATE November 24, 1986

OUR FILE No 1-M-1219-01

INVOICE No 2041

RE Mining Agreement - Rivest Brothers Enterprises (1977) Ltd.

TO ALL OUR SERVICES TO DATE RELATING TO THE ABOVE, INCLUDING:

- Oct. 31/86 To office attendance on you and Mr. Rivest to discuss matter;
- Nov. 19/86 To drafting of draft Agreement and corresponding with you;
- Nov. 24/86 To review of draft; to brief office attendance on you and corresponding with Rivest Brothers Enterprises (1977) Ltd.;

TO OUR FEES: \$465.00

DISBURSEMENTS:

Photocopy expense \$2.80

TOTAL FEES AND DISBURSEMENTS: \$467.80

JACK L. RIVEST
2220 - 80 AVE 440-6630
EDMONTON, ALTA T6P 1N2

CR
320
Mar 24 1987

Pay to the
Order of

Cable, Veale + Morris \$ 467.80
Four Hundred + Sixty-Seven - 80/100

THE BANK OF NOVA SCOTIA

7460 - 82 AVENUE
EDMONTON, ALTA. T6B 0G2

E & O E

This is our account
CABLE, VEALE & MORRIS

Per
Ivan J. Cable
/lgg

⑈ 320 ⑈ ⑆ 90639 ⑈ 002 ⑆ 88525 ⑈ 29 ⑈ 0009

INTERCHEQUES-0 ⑆ ⑆ ⑆ ⑆ ⑆ ⑆ ⑆ ⑆ ⑆ ⑆

TERMS 1½% per month will be charged on accounts overdue after 30 days

Rivest Bros. Enterprises (1977) Ltd.

INVOICE 5284

2220 - 80 AVENUE
STATION "L"
EDMONTON, ALBERTA
T6P 1N2
PHONE 440-6630

RIVEST BROS

Date *June 30 1987*

ATTN *SACK*

Our Job No

Your Order No

*DAWSON CITY TRAVEL TO 40 MILE
LOAD. 941 CAT. + 45 TSW HAUL TO
MONTANA CR. RE DAWSON CITY
LOAD AC WAGON. (LOADED) HAUL TO
MONTANA CR. UNLOAD RE DAWSON.
20/HR. 80*

1600

PLEASE PAY FROM THIS INVOICE
NO STATEMENT ISSUED

Terms Net 30 Days
2% Per Month (24% Per Annum)
Charged On Overdue Accounts

TOTAL
INVOICE
AMOUNT

1600.00

INVOICE 5290

Rivest Bros. Enterprises (1977) Ltd.

2220 - 80 AVENUE
STATION "L"
EDMONTON, ALBERTA
T6P 1N2
PHONE 440-6630

RIVEST BROS

Date July 15/87

ATTN JACK

Our Job No
Your Order No.

DAWSON YD TRAVEL TO MONTANA CR.
LOAD HC. WAGON. AND CAMP STACK
HAUL TO DAWSON YD UNLOAD RE
MONTANA CR. LOAD. 45 HOF AND
941 Haul To MOOSE CR. UNLOAD
RE CLINTON CR LOAD DB Haul
Haul. To MOOSE CR UNLOAD R.
CLINTON LOAD. VAN Haul To MOOSE
CR. UNLOAD RE DAWSON CITY.
33 HR. \$100.00 PER

\$ 3300.00

PLEASE PAY FROM THIS INVOICE
NO STATEMENT ISSUED

Terms Net 30 Days
2% Per Month (24% Per Annum)
Charged On Overdue Accounts

TOTAL
INVOICE
AMOUNT

3300.00

July 1/87

201 146 019 9 06375

RIVEST BROS ENT LTD
UNIT 19

White Pass Petroleum
05/89
Chevron

09030040 070887 49001683

5TH AVE X PRINCESS
DAWSON CITY YT
THE GAS SHACK
ALTA

			Quantity	Price	Amount
REGULAR LEADED	SUPREME LEADED	REGULAR UNLEADED			
MOTOR OIL					
W0402380					
Fuel Pump					6375
Vendor's Initial S28WP (11/85)				Social Services Tax	
Total					6375

HNT 087
Vehicle License Number

x Jack Rivest
Customer Signature

2011460199
Vendor's Initial
S28WP (11/85)

July 7/87

201 146 019 9 06459

RIVEST BROS ENT LTD
UNIT 19

White Pass Petroleum
05/89
Chevron

09030040 070787 49002545

5TH AVE X PRINCESS
DAWSON CITY YT
THE GAS SHACK

			Quantity	Price	Amount
REGULAR LEADED	SUPREME LEADED	REGULAR UNLEADED	97.13	66	6459
MOTOR OIL					
Vendor's Initial S28WP (11/85)				Social Services Tax	
Total					6459

HNT-087
Vehicle License Number

x Jack Rivest
Customer Signature

2011460199
Vendor's Initial
S28WP (11/85)

July 22

201 146 019 9 03700

RIVEST BROS ENT LTD
UNIT 19

White Pass Petroleum
05/89
Chevron

09030297 072287 46723102

KLONDIKE HWY
CARMACKS Y T

			Quantity	Price	Amount
REGULAR LEADED	SUPREME LEADED	REGULAR UNLEADED	62.2	58	37.00
MOTOR OIL					
Vendor's Initial S28WP (11/84)				Prov Sales Tax	
Total					37.00

HNT-087
Vehicle License Number

x Jack Rivest
Customer Signature

2011460199
Vendor's Initial
S28WP (11/84)

J by 4/87.

201 146 019 9

05700

RIVEST BROS ENT LTD
UNIT 19

05789

Petroleum



09030040

070487

48002304

5TH AVE X PRINCESS
DAWSON CITY YT
THE GAS SHACK

			Quantity	Price	Amount
REGULAR LEADED	SUPREME UNLEADED	REGULAR UNLEADED	8.71	66	5700
MOTOR OIL					
Customer Signature			Social Service Tax		
201 Initial			Total		5700

YUKON
HVS-087
17/9
[Signature]

S261.P (11/85)

July 7/87

201 146 019 9 ♦ 06400

RIVEST BROS ENT LTD UNIT 19

SOLD BY

ACCOUNT ASSIGNED TO
ESSO PETROLEUM CANADA
A Division of Imperial Oil Limited

9911047838000 1 MO DAY YR
05/89

KLONDIKE RIVER
BOX 69 LODGE 07078

CUSTOMER'S SIGNATURE
Rivest

PRODUCT	QUANTITY	PRICE	AMOUNT
EXTRA DIESEL	17.7		64.00
ESSO 2000 PROPAANE			
Motor Oil			
ODDOMEER READING			TAX
			TOTAL 64.00

LICENSE NO UNIT-087-A

PROV STATE AITa.

AUTHORIZATION NO 1122742

S 950B/5 7/83 155341

June 29/87

201 146 019 9 ♦ 11835

RIVEST BROS ENT LTD UNIT 19

SOLD BY

ACCOUNT ASSIGNED TO
ESSO PETROLEUM CANADA
A Division of Imperial Oil Limited

9911027407600 MO DAY YR
06/29/87

2086 - 2ND AVE
WHITEHORSE, YUKON

CUSTOMER'S SIGNATURE
Jack Rivest

PRODUCT	QUANTITY	PRICE	AMOUNT
EXTRA DIESEL	6.15		59.70
ESSO 2000 PROPAANE			
Motor Oil	11.175		58.61
ODDOMEER READING			TAX
			TOTAL 118.31

LICENSE NO UNIT-087-A

PROV STATE AITa.

AUTHORIZATION NO 7320049

S 950B 5 7/83 155341

MACKENZIE PETROLEUM
BOX 647
DAWSON CITY, YUKON
Y0B 1G0

PHONE: 993-5130

SALES INVOICE

INVOICE 2582

JUNE 30, 1987

SOLD TO RIVEST BROTHERS

DAWSON CITY, Y.T.

TERMS NET 30 DAYS

KEYLOCK M-08
READING JUNE 10454.0

2078.5 LTR GASOLINE UNLEADED @.5727 \$1190.36

220

MACKENZIE PETROLEUM
EQ# 647
D-WEON CITY, YUKON
YOE 160

PHONE 993-5130

FALSE INVOICE

INVOICE 2604

JULY 31, 1987

SOLD TO RIVEST BROTHERS

DAWSON CITY, Y.T.

TERMS NET 30 DAYS

KEYLOCK E-07
READING JULY 6873

1519 LTR DIESEL @ 0.5357 \$ 817.30

WAGES FOR MONTANA CREEK EXPLORATION PROGRAM

Payroll - Weekly
O.T. - After 8 hours per day, Saturdays, Sundays
& Holidays
Hol. Pay - 6%

General Labourers @ \$10.00 per hour
Drillers & Helpers @ \$12.50 per hour
Equipment Operators @ \$15.00 per hour
Supervisory @ \$18.00 per hour
Camp Cook @ \$10.00 per hour

<u>EMPLOYEES</u>		<u>GROSS PAYROLL</u>
Kelly Chesney	- Labourer	\$ 2,438.00
Kevin Chesney	- Equipment Operator	\$ 3,657.00
Roger Garneau	- Driller	\$ 3,196.57
Phyllis Chesney	- Camp Cook	\$ 2,438.00
Jack Rivest	- Supervisory	\$ 4,388.40
Earl Chesney	- Equipment Operator	\$ 3,704.70
	TOTAL GROSS PAYROLL	<u>\$19,822.67</u>

TIME REPORT

RIVEST BROS.

NAME		<i>Jack Rivest</i>					Week Ending		<i>July 27/57</i>		
ROJL NO		<i>Monte</i>	<i>Ally</i>			MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME	
MONDAY	<i>29</i>		<i>10</i>				<i>10</i>	<i>✓</i>	<i>2</i>		
TUESDAY	<i>30</i>		<i>10</i>				<i>10</i>	<i>✓</i>	<i>2</i>		
WEDNESDAY	<i>1</i>	<i>12</i>					<i>12</i>		<i>12</i>		
THURSDAY	<i>2</i>	<i>12</i>					<i>12</i>	<i>✓</i>	<i>1</i>		
FRIDAY	<i>3</i>	<i>12</i>					<i>12</i>	<i>✓</i>	<i>4</i>		
SATURDAY	<i>4</i>	<i>12</i>					<i>12</i>		<i>12</i>		
SUNDAY	<i>5</i>	<i>12</i>					<i>12</i>		<i>12</i>		
Supervisory <i>Supervisory</i>							TOTAL HOURS	<i>80</i>	<i>32</i>	<i>48</i>	

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM	TOTAL
MONDAY							
TUESDAY							
WEDNESDAY							
THURSDAY							
FRIDAY							
SATURDAY							
SUNDAY							
SUB TOTAL							

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	<i>GROSS PAYROLL - 1564 56.</i>	
Signed <i>Jack Rivest</i> Approved <i>J.P.</i>		TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME		Week Ending									
PROJECT NO		TOTAL									
		STRAIGHT TIME			OVERTIME			DOUBLE TIME			
MONDAY	12	12	8	4							
TUESDAY	12	12	8	4							
WEDNESDAY	12	12	8	4							
THURSDAY	12	12	8	4							
FRIDAY	12	12	8	4							
SATURDAY	12	12			12						
SUNDAY	12	12				12					
XXXXXXXXXXXXXXXXXXXX <i>XXXXXXXXXXXXXXXXXXXX</i>		TOTAL HOURS			84	40	44				

EXPENSE REPORT

	PROJECT NO	BREAKFAST		LUNCH		DINNER		ROOM		TOTAL	
MONDAY											
TUESDAY											
WEDNESDAY											
THURSDAY											
FRIDAY											
SATURDAY											
SUNDAY											
SUB TOTAL											

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 2022 48	
Signed <i>Jack Rivest</i>	Approved <i>J.R.</i>	TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME <i>Jack Rivest</i>						Week Ending <i>July 19</i>				
PP	T NO	<i>Montana</i>				MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
MONDAY		<i>12</i>					<i>12</i>	<i>8</i>	<i>4</i>	
TUESDAY		<i>12</i>					<i>12</i>	<i>8</i>	<i>4</i>	
WEDNESDAY		<i>12</i>					<i>12</i>	<i>8</i>	<i>4</i>	
THURSDAY										
FRIDAY										
SATURDAY										
SUNDAY										
Project Name <i>Aggravation</i>						TOTAL HOURS	<i>36</i>	<i>24</i>	<i>12</i>	

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM	TOTAL
MONDAY							
TUESDAY							
WEDNESDAY							
THURSDAY							
FRIDAY							
SATURDAY							
SUNDAY							
SUB TOTAL							

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	<i>GROSS PAYROLL - 80136</i>	

Signed *Jack Rivest*

Approved *J.R.*

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME		PHYLIS CHESNEY					Week Ending		July 5/87		
PROJECT NO	MONTANA CREEK	CLINTON CREEK				MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME	
MONDAY			10				10	8	2		
TUESDAY			10				10	8	2		
WEDNESDAY	12						12		12		
THURSDAY	12						12	8	4		
FRIDAY	12						12	8	4		
SATURDAY	12						12		12		
SUNDAY	12						12		12		
XXXXXXXXXXXX CAMP COOK							TOTAL HOURS	80	32	48	

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM		TOTAL
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								
SUB TOTAL								

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL -	80920

Signed P Chesney Approved _____ TOTAL _____

Cheque No _____

TIME REPORT

RIVEST BROS.

NAME		PHYLLIS CHESNEY					Week Ending		July 12/87		
PROJECT NO	MONTANA CREEK					MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME	
MONDAY	12						12	8	4		
TUESDAY	12						12	8	4		
WEDNESDAY	12						12	8	4		
THURSDAY	12						12	8	4		
FRIDAY	12						12	8	4		
SATURDAY	12						12		12		
SUNDAY	12						12		12		
XXXXXXXXXX CAMP WORK							TOTAL HOURS	84	40	44	

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM	TOTAL
MONDAY							
TUESDAY							
WEDNESDAY							
THURSDAY							
FRIDAY							
SATURDAY							
SUNDAY							
SUB TOTAL							

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 112360	

Signed *PChesney*

Approved

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME		PHYLLIS CHEENEY						Week Ending		July 19/87			
PR	T NO	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
		12	12	12						12	8	4	
		12	12	12						12	8	4	
		12								12	8	4	
<div style="background-color: black; width: 100px; height: 15px; display: inline-block;"></div> CAMP COCK										TOTAL HOURS	36	24	12

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM		TOTAL
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								
SUB TOTAL								

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 445 20	

Signed

P Cheeneey

Approved

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME Kelly Chesney Week Ending July 5/87

PRI	T NO	MONTANA CREEK		CLINTON CREEK		MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
	MONDAY				10		10	8	2	
	TUESDAY				10		10	8	2	
	WEDNESDAY		12				12		12	
	THURSDAY		12				12	8	4	
	FRIDAY		12				12	8	4	
	SATURDAY		12				12	8	12	
	SUNDAY		12				12		12	
							TOTAL HOURS	80	32	48

~~XXXXXXXXXXXX~~ GENERAL LABORER

EXPENSE REPORT

	PROJECT NO	BREAKFAST		LUNCH		DINNER		ROOM		TOTAL
MONDAY										
TUESDAY										
WEDNESDAY										
THURSDAY										
FRIDAY										
SATURDAY										
SUNDAY										
SUB TOTAL										

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	CORCOS PAYROLL - 869.20	

Signed Kelly Chesney

Approved J.R.

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME KELLY CHESNEY

Week Ending July 12/87

PR	T NO	MONTANA CREEK				MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
MONDAY		12					12	8	4	
TUESDAY		12					12	8	4	
WEDNESDAY		12					12	8	4	
THURSDAY		12					12	8	4	
FRIDAY		12					12	8	4	
SATURDAY		12					12		12	
SUNDAY		12					12		12	
TOTAL								40	44	

~~XXXXXXXXXXXXXXXXXXXX~~ GENERAL LABORER HOURS

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM	TOTAL
MONDAY							
TUESDAY							
WEDNESDAY							
THURSDAY							
FRIDAY							
SATURDAY							
SUNDAY							
SUB TOTAL							

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 112360	

Signed Kelly Chesney

Approved J.F.

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME		Kelly Chesney					Week Ending		July 19/87			
PRC	NO	MONTANA					MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME	
MONDAY	13	12						12	8	4		
TUESDAY	14	12						12	8	4		
WEDNESDAY	15	12						12	8	4		
THURSDAY	16											
FRIDAY	17											
SATURDAY	18											
SUNDAY	19											
 GENERAL LABORER							TOTAL HOURS	36	24	12		

EXPENSE REPORT

	PROJECT NO	BREAKFAST		LUNCH		DINNER		ROOM		TOTAL	
MONDAY											
TUESDAY											
WEDNESDAY											
THURSDAY											
FRIDAY											
SATURDAY											
SUNDAY											
SUB TOTAL											

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 445.20	

Signed Kelly Chesney Approved J.R. TOTAL Cheque No

TIME REPORT

RIVEST BROS.

NAME		E. Chesney									
PP		MONTANA CREEKS		CLINTON CREEKS		MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME	
MONDAY					10		10	8	2		
TUESDAY					10		10	8	2		
WEDNESDAY		12					12		12		
THURSDAY		12					12	8	4		
FRIDAY		12					12	8	4		
SATURDAY		13					13		13		
SUNDAY		12					12		12		
Equipment Operator Equipment Operator							TOTAL HOURS	81	32	49	

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM		TOTAL
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								
SUB TOTAL								

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 132765	

Signed *E. Chesney* Approved *J. R.* TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME		E. Chesney										Week Ending		July 12 / 87	
PRC	TNO	Montana Creek						MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME			
MONDAY		12							12	8	4				
TUESDAY		12							12	8	4				
WEDNESDAY		13							13	8	5				
THURSDAY		12							12	8	4				
FRIDAY		12							12	8	4				
SATURDAY		12							12		12				
SUNDAY		12							12		12				
Subtotal Equip. Operator									TOTAL HOURS	85	40	45			

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM	TOTAL
MONDAY							
TUESDAY							
WEDNESDAY							
THURSDAY							
FRIDAY							
SATURDAY							
SUNDAY							
SUB TOTAL							

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 1709 25	

Signed *E. Chesney*

Approved *[Signature]*

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME		<i>E. Cheney</i>					Week Ending		<i>July 19/87</i>		
PR	T NO						MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
		<i>Mountain Creek</i>									
MONDAY		<i>12</i>						<i>12</i>	<i>8</i>	<i>4</i>	
TUESDAY		<i>12</i>						<i>12</i>	<i>8</i>	<i>4</i>	
WEDNESDAY		<i>12</i>						<i>12</i>	<i>8</i>	<i>4</i>	
THURSDAY											
FRIDAY											
SATURDAY											
SUNDAY											
							TOTAL HOURS	<i>36</i>	<i>24</i>	<i>12</i>	

~~Equipment Operator~~ *Equip Operator*

EXPENSE REPORT

	PROJECT NO	BREAKFAST		LUNCH		DINNER		ROOM		TOTAL
MONDAY										
TUESDAY										
WEDNESDAY										
THURSDAY										
FRIDAY										
SATURDAY										
SUNDAY										
SUB TOTAL										

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	<i>GROSS PAYROLL - 467.50</i>	

Signed *E. Cheney*

Approved *J.R.*

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME *Kevin Chesney*

Week Ending *July 5/87*

PR	T NO	<i>Mt. Wash</i>	<i>Cl. Time</i>	MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
MONDAY	<i>29</i>		<i>10</i>		<i>10</i>	<i>8</i>	<i>2</i>	
TUESDAY	<i>30</i>		<i>10</i>		<i>10</i>	<i>8</i>	<i>2</i>	
WEDNESDAY	<i>1</i>	<i>10</i>			<i>12</i>		<i>12</i>	
THURSDAY	<i>2</i>	<i>10</i>			<i>12</i>	<i>8</i>	<i>4</i>	
FRIDAY	<i>3</i>	<i>10</i>			<i>12</i>	<i>8</i>	<i>4</i>	
SATURDAY	<i>4</i>	<i>10</i>			<i>12</i>		<i>12</i>	
SUNDAY	<i>5</i>	<i>10</i>			<i>12</i>		<i>12</i>	
<i>██████████ Equip. Repair</i>					TOTAL HOURS	<i>80</i>	<i>32</i>	<i>48</i>

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER	ROOM	TOTAL
MONDAY						
TUESDAY						
WEDNESDAY						
THURSDAY						
FRIDAY						
SATURDAY						
SUNDAY						
SUB TOTAL						

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	<i>GROSS PAYROLL - 130380</i>	

Signed *Kevin Chesney*

Approved *J.R.*

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME *Kevin Chesney*

Week Ending *July 13/87*

PROJECT NO	MON-Tues Clock				MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
	12					12	8	4	
MONDAY									
TUESDAY	12					12	8	4	
WEDNESDAY	12					12	8	4	
THURSDAY	12					12	8	4	
FRIDAY	12					12	8	4	
SATURDAY	12					12		12	
SUNDAY						12		12	

~~Equipment Operator~~ *Equipment Operator* TOTAL HOURS 84 110 84

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM		TOTAL
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								
SUB TOTAL								

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	<i>GROSS PAYROLL - 1685 40</i>	

Signed *Kevin Chesney*

Approved *J.R.*

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME <i>Kevin Chesney</i>						Week Ending <i>July 19/87</i>				
PROJECT NO		<i>Montana Creek</i>				MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
MONDAY		<i>12</i>					<i>12</i>	<i>8</i>	<i>4</i>	
TUESDAY		<i>12</i>					<i>12</i>	<i>8</i>	<i>4</i>	
WEDNESDAY		<i>12</i>					<i>12</i>	<i>8</i>	<i>4</i>	
THURSDAY										
FRIDAY										
SATURDAY										
SUNDAY										
Rate Number <i>Equip Operator</i>							TOTAL HOURS	<i>36</i>	<i>24</i>	<i>12</i>

EXPENSE REPORT

	PROJECT NO	BREAKFAST		LUNCH		DINNER		ROOM		TOTAL	
MONDAY											
TUESDAY											
WEDNESDAY											
THURSDAY											
FRIDAY											
SATURDAY											
SUNDAY											
SUB TOTAL											

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	<i>GROSS PAYROLL -</i>	<i>667⁸⁶</i>

Signed *Kevin Chesney*

Approved *J.R.*

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME R. GAGNEAU

Week Ending July 5 '87

PR	T NO	MOUNTA CREEK					MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
	MONDAY										
	TUESDAY										
	WEDNESDAY	1	12					12		12	
	THURSDAY	2	13					13	8	5	
	FRIDAY	3	12					12	8	4	
	SATURDAY	4	14					14		14	
	SUNDAY	5	11 1/2					11 1/2		11 1/2	
								TOTAL HOURS	62 1/2	16	46 1/2

~~XXXXXXXXXXXX~~ DELLER

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM		TOTAL
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								
SUB TOTAL								

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 1136 19.	

Signed [Signature]

Approved J.R.

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME R. GARNEAU Week Ending July 12/87

PP	DT NO						MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
			Mountain Creek								
MONDAY	6		12					12	8	4	
TUESDAY	7		13					13	8	5	
WEDNESDAY	8		13					13	8	5	
THURSDAY	9		12					12	7	4	
FRIDAY	10		13					13	8	5	
SATURDAY	11		12					12		12	
SUNDAY	12		12					12		12	
								TOTAL HOURS	87	40	47

~~Mountain Creek~~ Driller

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM		TOTAL
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								
SUB TOTAL								

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 1464 13	

Signed [Signature] Approved

J.R.

TOTAL

Cheque No

TIME REPORT

RIVEST BROS.

NAME R. GARNEAU Week Ending July 19/57

PP	T NO	NO STAM CHECK				MR	TOTAL	STRAIGHT TIME	OVER TIME	DOUBLE TIME
MONDAY		12					12	8	4	
TUESDAY		13					13	8	5	
WEDNESDAY		13					13	8	5	
THURSDAY										
FRIDAY										
SATURDAY										
SUNDAY										
XXXXXXXXXX <u>DRILLER</u>							TOTAL HOURS		24	14

EXPENSE REPORT

	PROJECT NO	BREAKFAST	LUNCH	DINNER		ROOM		TOTAL
MONDAY								
TUESDAY								
WEDNESDAY								
THURSDAY								
FRIDAY								
SATURDAY								
SUNDAY								
SUB TOTAL								

MISC DETAILS AND RECEIPTS FOR BELOW

DATE	EXPLANATION	AMOUNT
	GROSS PAYROLL - 596.25	

Signed [Signature] Approved J.P. TOTAL Cheque No

EXPLORATION INCENTIVE PROGRAM

EIP 87012

DRILL AND BULK TEST PROGRAM ON
MONTANA CREEK

LEASE JANINE #7434

PLACER SHEET 115-0-10d

139° 00' LONGITUDE X 63° 37' LATITUDE

GRANT #P29721 - P29723, 7434

LOCATION - 115011

SUPERVISION WAS CONDUCTED BY

EARL CHESNEY AND JACK RIVEST

FOR

RIVEST BROS. ENTERPRISES (1977) LTD.

FROM

JULY 1 - 15, 1987

SCHEDULE "B"

1. MONTANA CREEK, Yukon Territory

<u>Grant Number</u>	<u>Location (NTS)</u>
P29721 - P29723	115011
7434	115011

In October of 1986, Tom Morgan and I, Jack Rivest, surveyed Placer Lease "P29721 - P29723" on Montana Creek. Old shafts, tunnels and trenches were seen that had been dug by hand approximately 50 - 70 years previously by some earlier prospectors.

Samples were taken from tailing piles and gold indications were found in all the hand tests we conducted. Several of the larger trenches also gave indications of gold and since they were to bedrock we decided to conduct a drilling and bulk test program on the property.

We also found pits, shafts and trenches that were dug on Stowe Creek. This indicated to us that several groups of earlier prospectors had conducted a large scale program on this property.

JACK L. HARDY

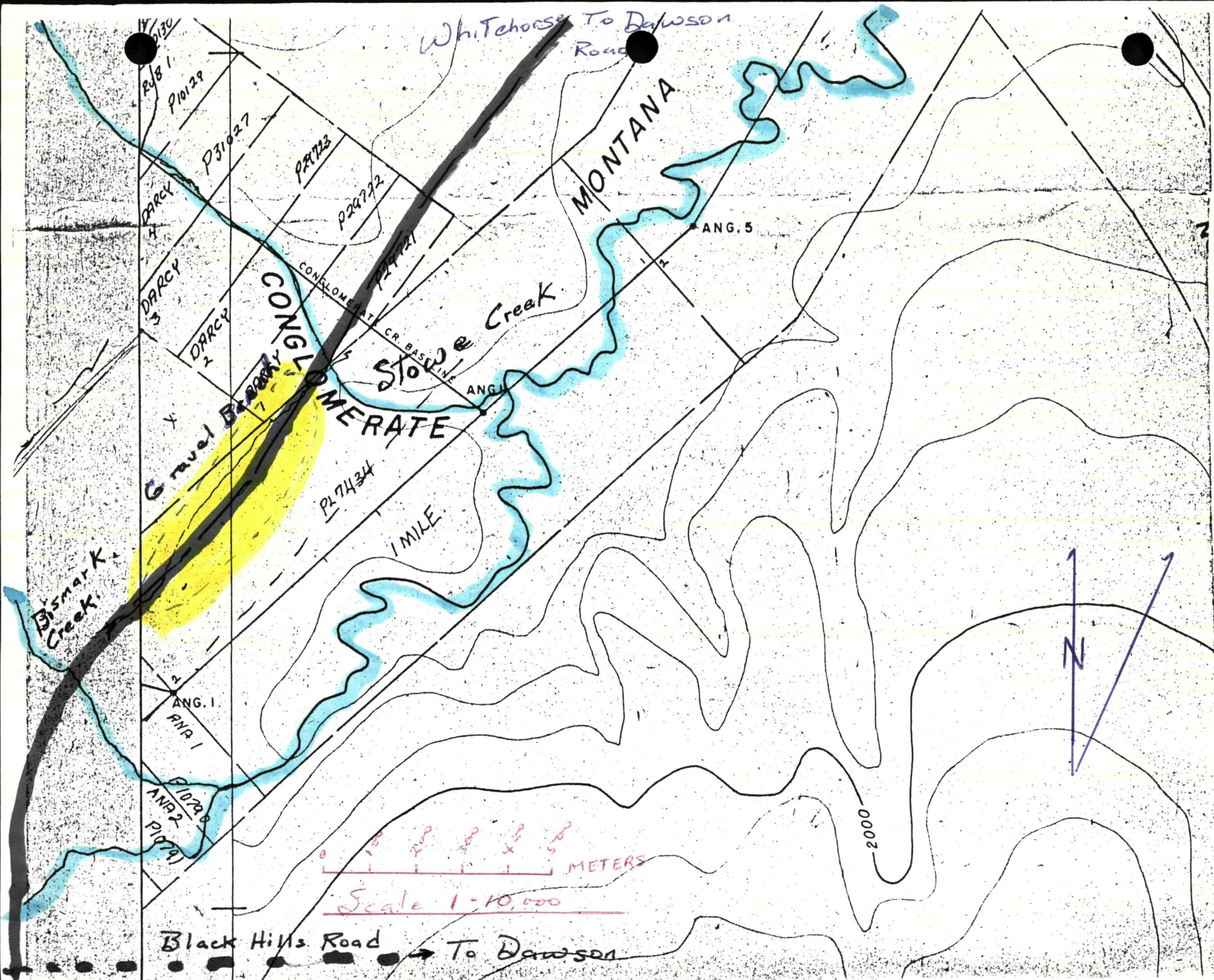
PRESIDENT

MILL-SPEX, INC.

MANUFACTURER OF MINERAL RECOVERY SYSTEMS

(702) 883-4024

P O BOX 1595 CARSON CITY, NEVADA 89702



2. On these results, we thought it would be to our advantage to conduct an indepth test on the property.

In June of 1987, we mobilized our equipment to Montana Creek and conducted a Drilling, Backhoe and Bulk Test Program. Some road building was conducted on site to get the equipment in position to conduct the program, see Map 1A.

From July 1 - 6, 1987, we mobilized to Montana Creek. This included setting up the camp, road building, transportation to the site, stripping some of the overburden and hauling the test trommel, 941 cat track loader, J.S.W. 45 hoe, welder, water pumps, etc. to the site.

The testing program took from July 7 - 15, 1987 to drill, dig test holes with the backhoe and to work the bulk samples using our test trommel. We used a Mill-Spex Spiral Concentrator to recover our fine gold instead of using a jig and found it very efficient. See included information.

THE PROGRAM CONSISTED OF THREE STAGES

- A. ROTARY DRILLING
- B. BACKHOE TEST HOLES
- C. BULK TEST SAMPLES

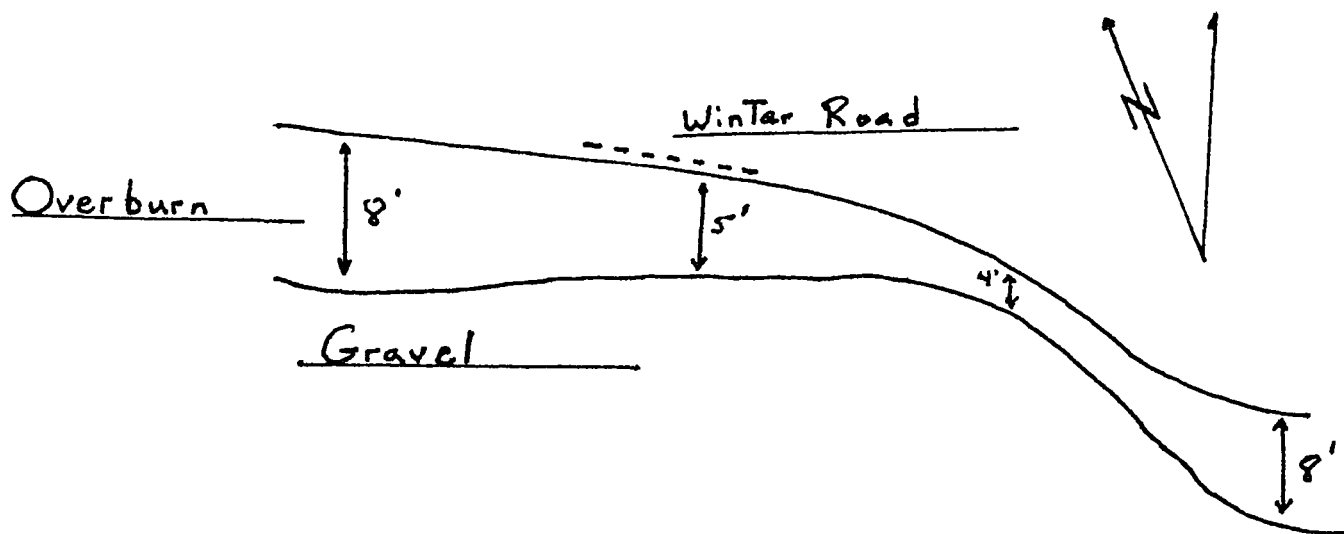
A. ROTARY DRILLING

Enclosed are Maps B-1 and B-2. B-2 is a larger version of Map B-1 so as to be able to read the drill results easier.

All results on Maps B-1 and B-2 are depth to gravel. Due to the difficulty of drilling into the gravels with a rotary drill and the relatively shallow depths of overburn, we used the drill merely to determine the overburn on the property. The backhoe was used to confirm our drill results.

Many of the locations that were drilled were near or into old shafts or trenches. It was found that by using water instead of air with the rotary drill, we were able to dig to deeper depths. Using this method we were capable of drilling down to where the gravel was located under the overburn.

It was observed that the overburn got deeper as we drilled back from the bench or N.E. this was especially true if we used the Old Whitehorse to Dawson Winter Road as the dividing line on the property. As you drilled N.E. of the road, the overburn got thicker but when you drilled from the road going N.W. to the edge of the bench the overburn in places only reached several feet in depth.



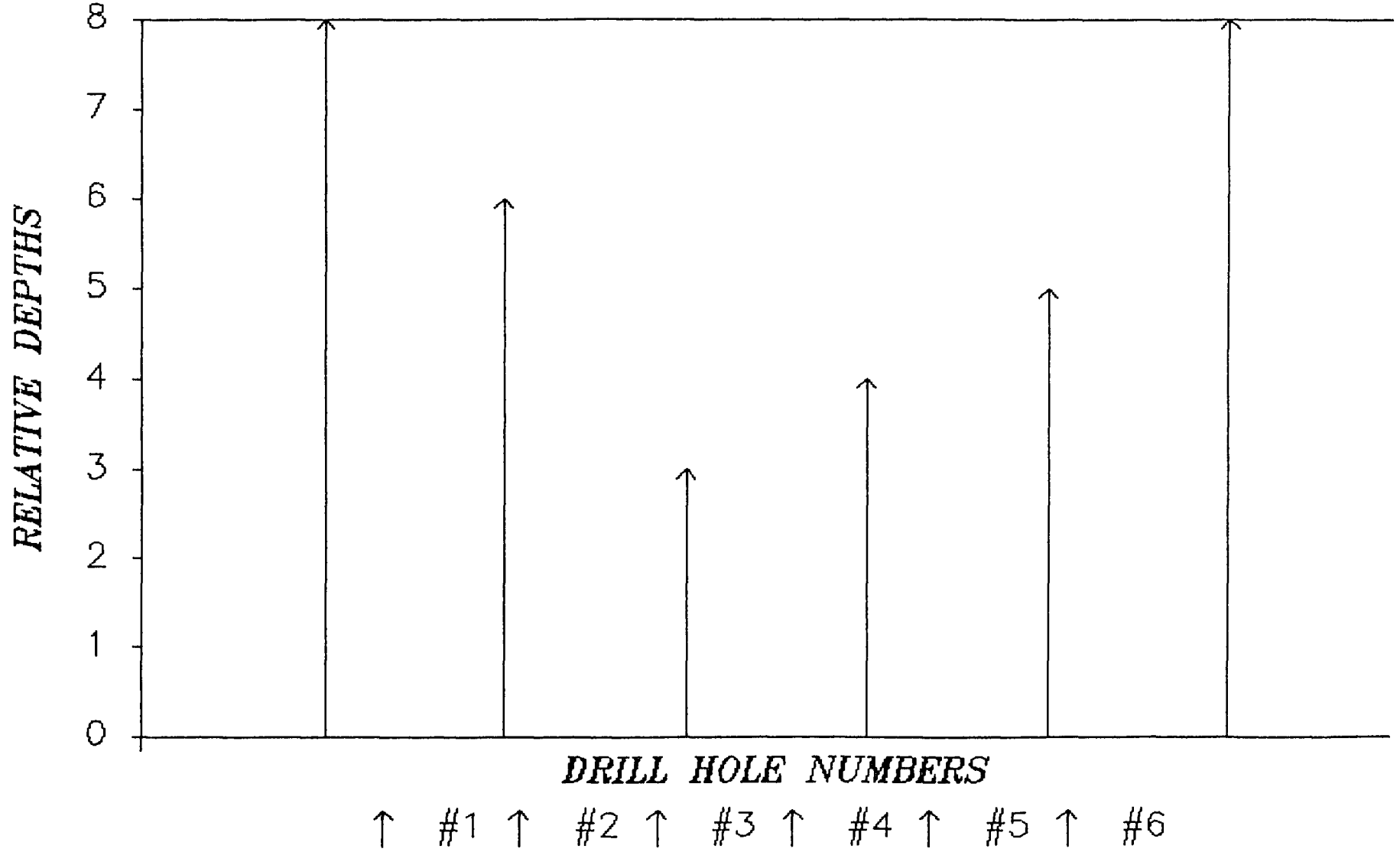
The overburn to gravel ranged from 4 - 8 feet deep depending on location and the gravel to bedrock ranged from 6 - 9 feet. The cuttings of gravel and sand were hand panned to check for gold indications and most pans showed some colors. Twenty holes were drilled of various depths - check Map B-2.

RIVEST BROS.
MONTANA CREEK
YUKON TERRITORY
JULY 1987

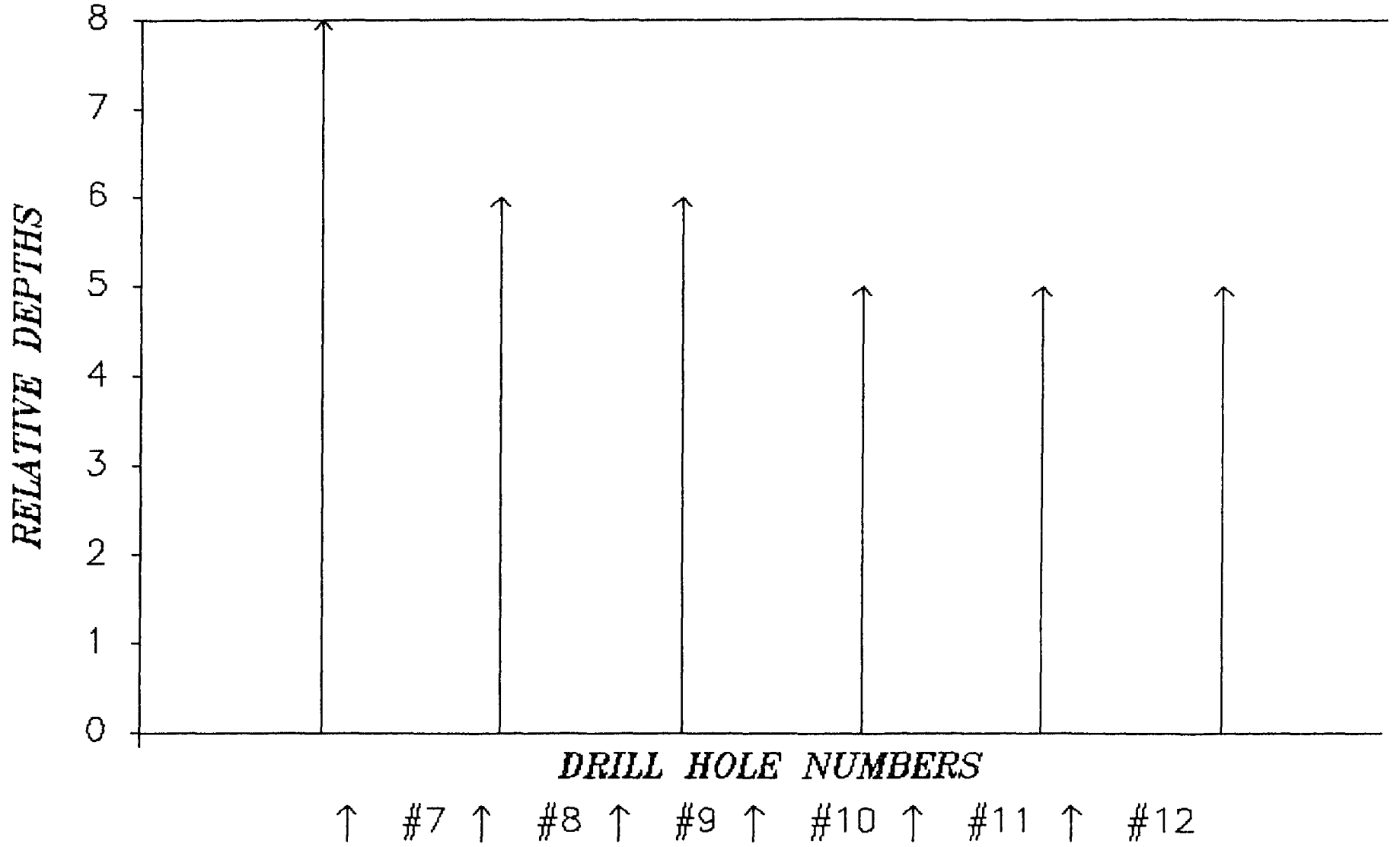
ROTARY DRILL HOLES
OVERBURDEN DEPTHS

HOLE #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DEPTH (FEET)	8	6	3	4	5	8	8	6	6	5	5	5	5	6	5	8	8	6	3	4

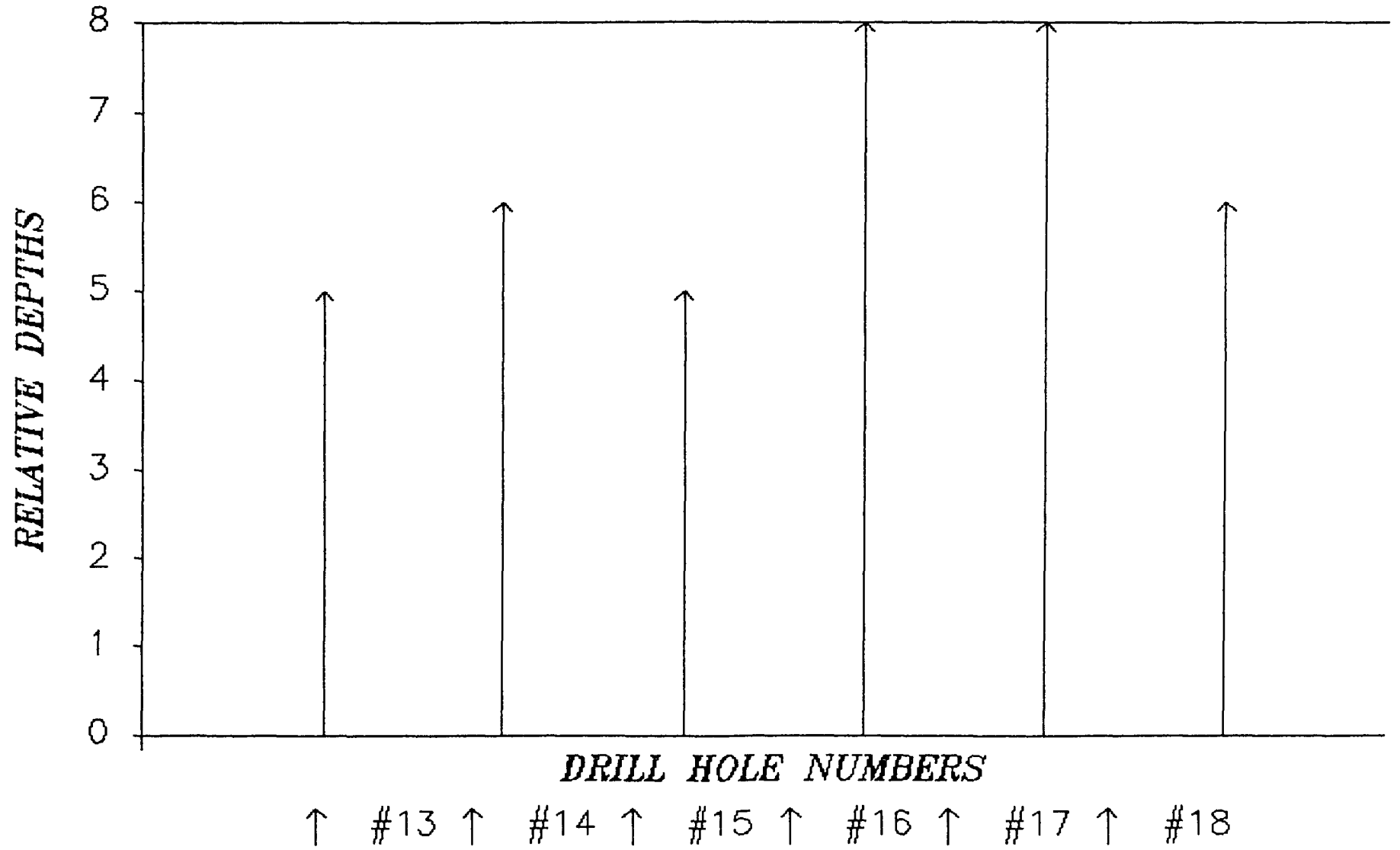
DRILLING OVERBURDEN DEPTHS



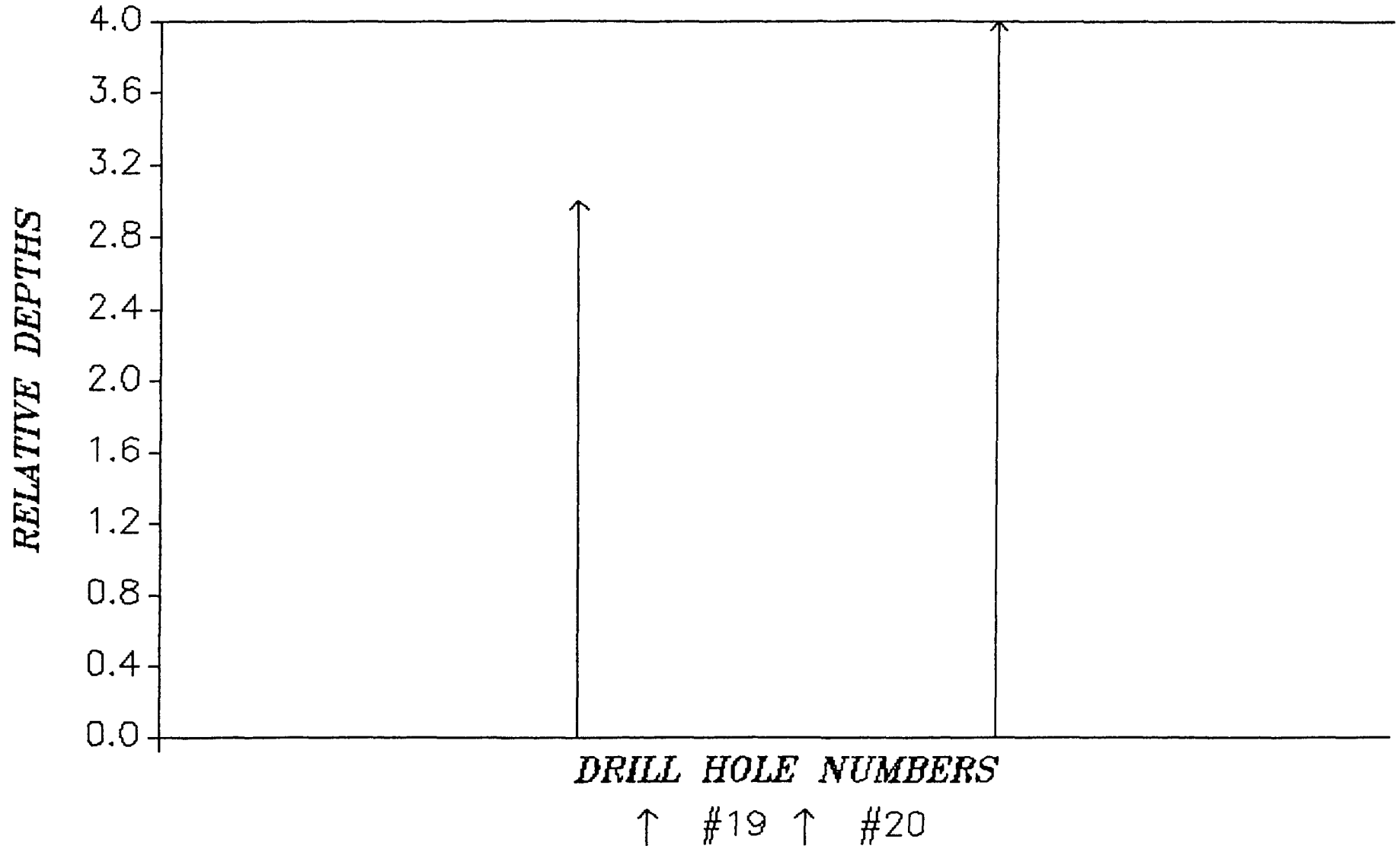
DRILLING OVERBURDEN DEPTHS

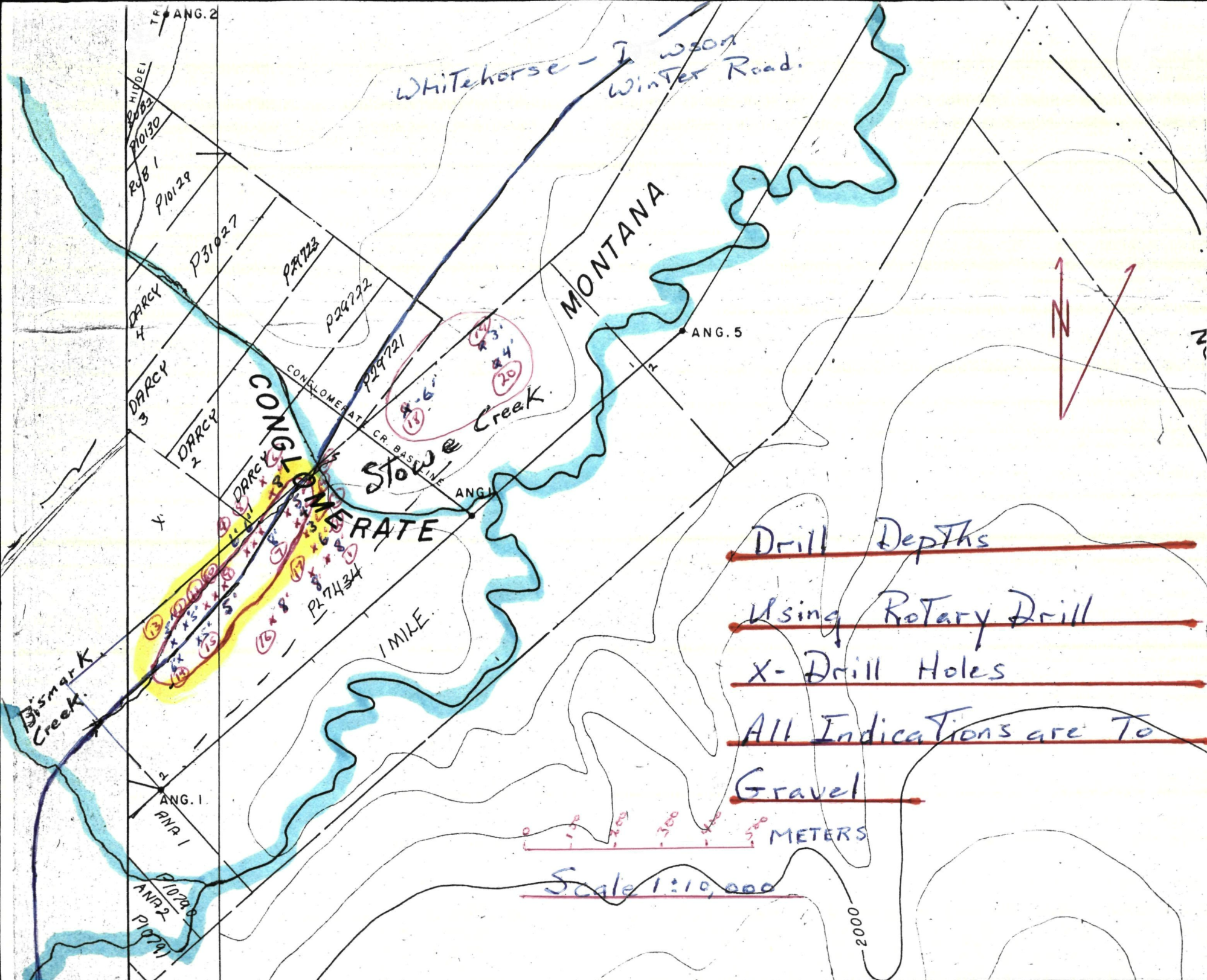


DRILLING OVERBURDEN DEPTHS



DRILLING OVERBURDEN DEPTHS

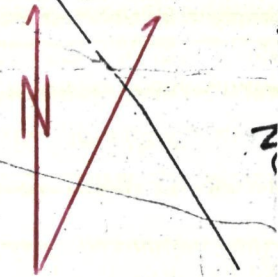




Drill Depths
Using Rotary Drill
X- Drill Holes
All Indications are To
Gravel



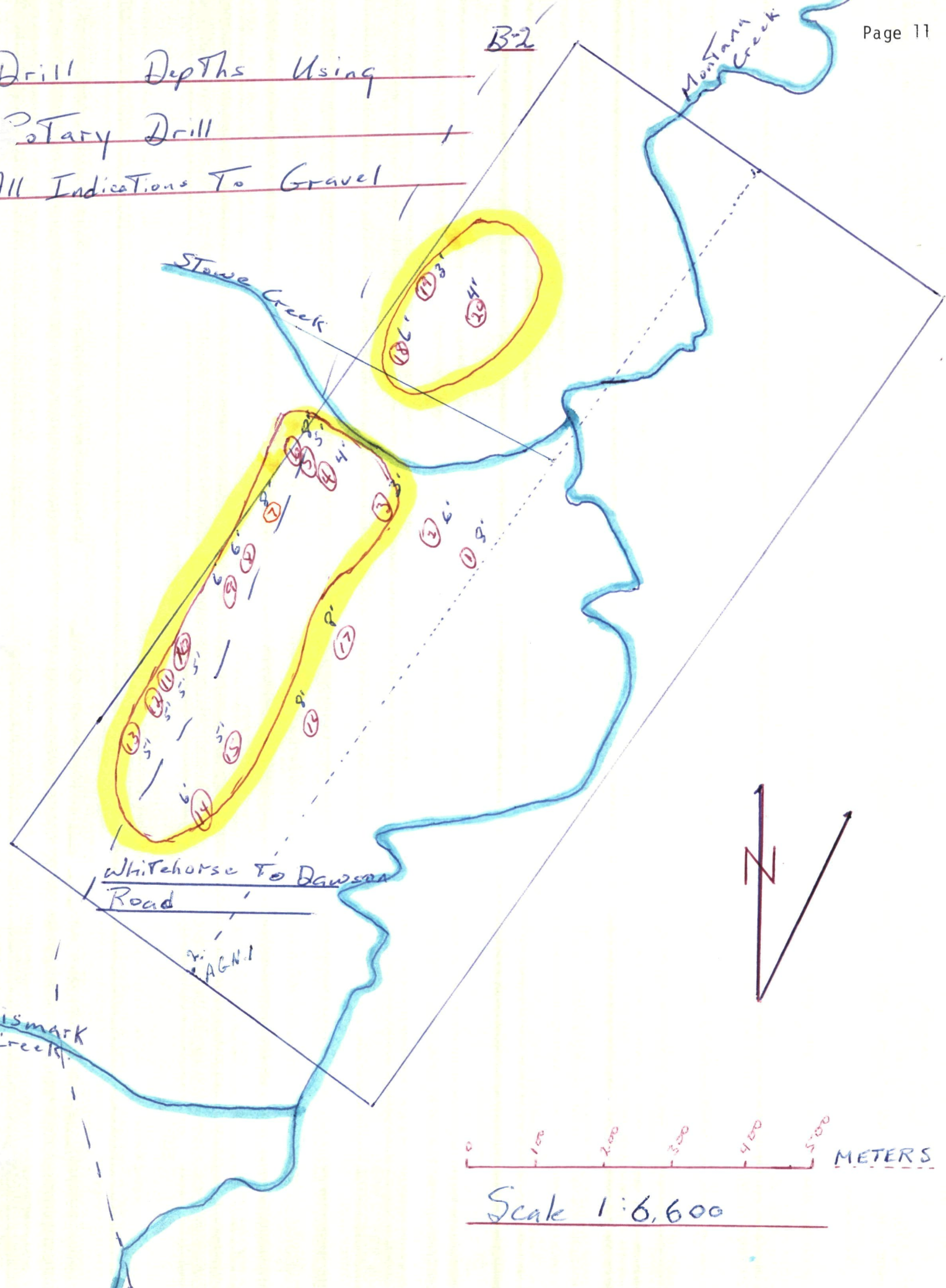
Scale 1:10,000



Map B-1

Drill Depths Using
Pottery Drill
All Indications To Gravel

B-2



Scale 1:6,600

B. BACKHOE TEST HOLES

Due to the shallow overburn and the ease of working a backhoe on this property, it was decided to take advantage of our J.S.W. 45 Tracked Backhoe to confirm the drilling results. We dug 25 good test holes in this manner, which gave immediate and good results to hand pan, to see if any gold indications were in the gravels.

Holes #3, 4, 8, 10, 12, 13, 16, 20, 22 and 23 all reached bedrock. See Map C-1. The overburn to gravel consisted of black muck in most locations, but on the edge of the bench, west of the Whitehorse to Dawson Winter Road it was river silt. The gravels found were very similar to river bar deposits - nicely rounded rocks with sand and silt mixed. Gold indications were found in almost every test hole which led us to believe that this could be an old river gravel bar.

The test holes varied in depth from 4 feet in perma-frost to 15 feet deep in frost free zones. The greatest depth necessary to dig to bedrock was 15 feet.

overburn	4-8'	} 8' - 15' total depth to bedrock
gravel	6-9'	
bedrock		

BACKHOE TEST HOLES (cont'd)

Below are the depths reached with the backhoe.
See Map C-1 for backhoe locations.

THAWED LOCATIONS

<u>Location</u>	<u>Depth Reached</u>
-----------------	----------------------

Muck & Gravel to Bedrock

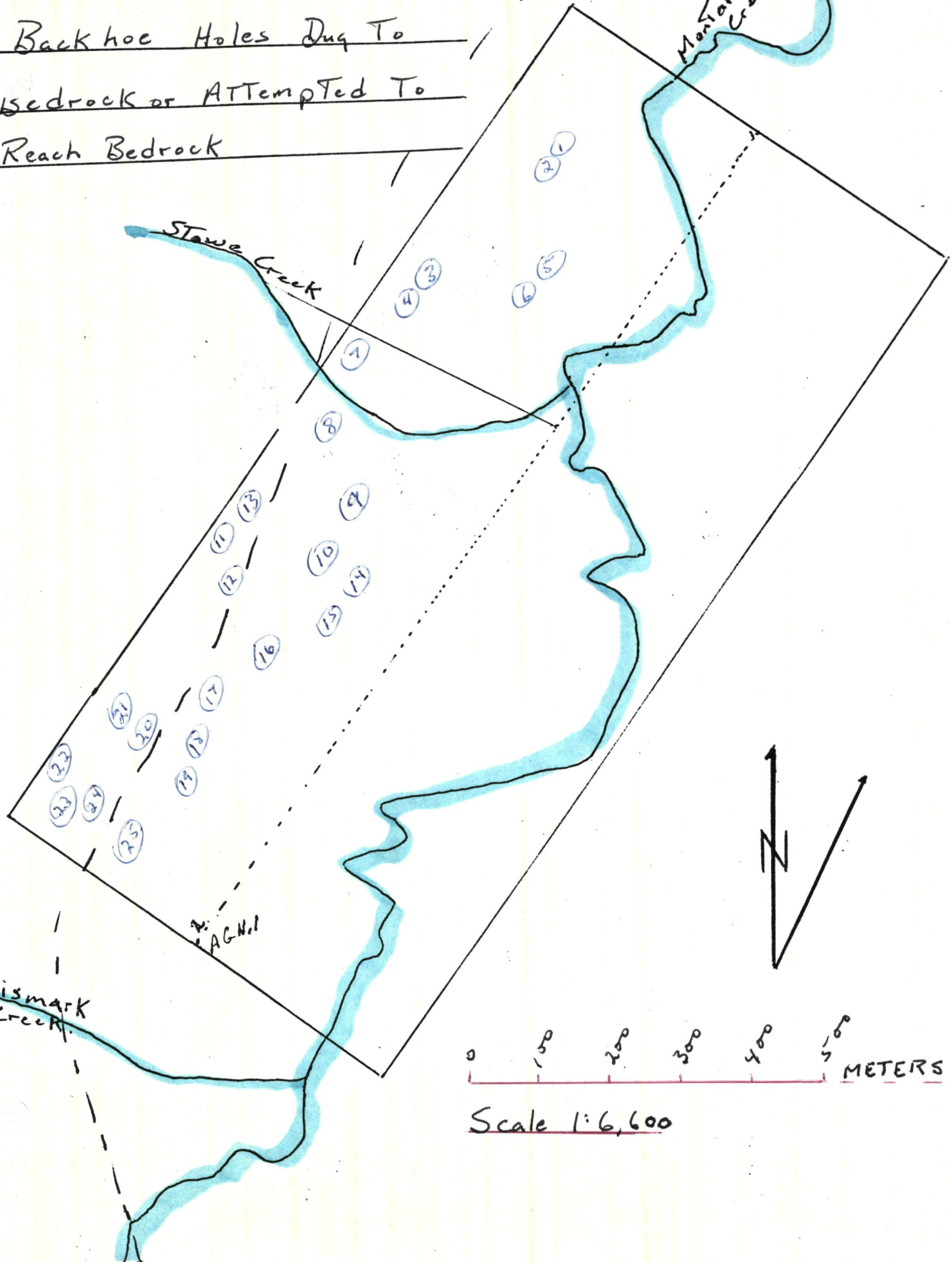
# 3 - 6 - 7'	13'
# 4 - 6 - 8'	14'
# 8 - 5 - 7'	12'
#10 - 8 - 7'	15'
#12 - 6 - 7'	13'
#13 - 4 - 7'	11'
#16 - 2 - 9'	11'
#20 - 5 - 7'	12'
#22 - 4 - 5'	9'
#23 - 5 - 5'	10'

PERMA FROST LOCATIONS

<u>Location</u>	<u>Depth Reached</u>
-----------------	----------------------

# 1	4'
# 2	5'
# 5	8'
# 6	8'
# 7	9'
# 9	8'
#11	7'
#15	8'
#17	6'
#18	7'
#19	6'
#21	5'
#24	6'
#25	7'

Back hoe Holes Dug To
Bedrock or ATTEMPTed To
Reach Bedrock



C. BULK TEST SAMPLES

A J.S.W. 45 Backhoe was used to dig the material for the bulk tests samples. A 941 cat track loader was also used to push trailings and to do some stripping. A 20 yd an hour trommel and a Honda 3" pump was used to sluice the gravels.

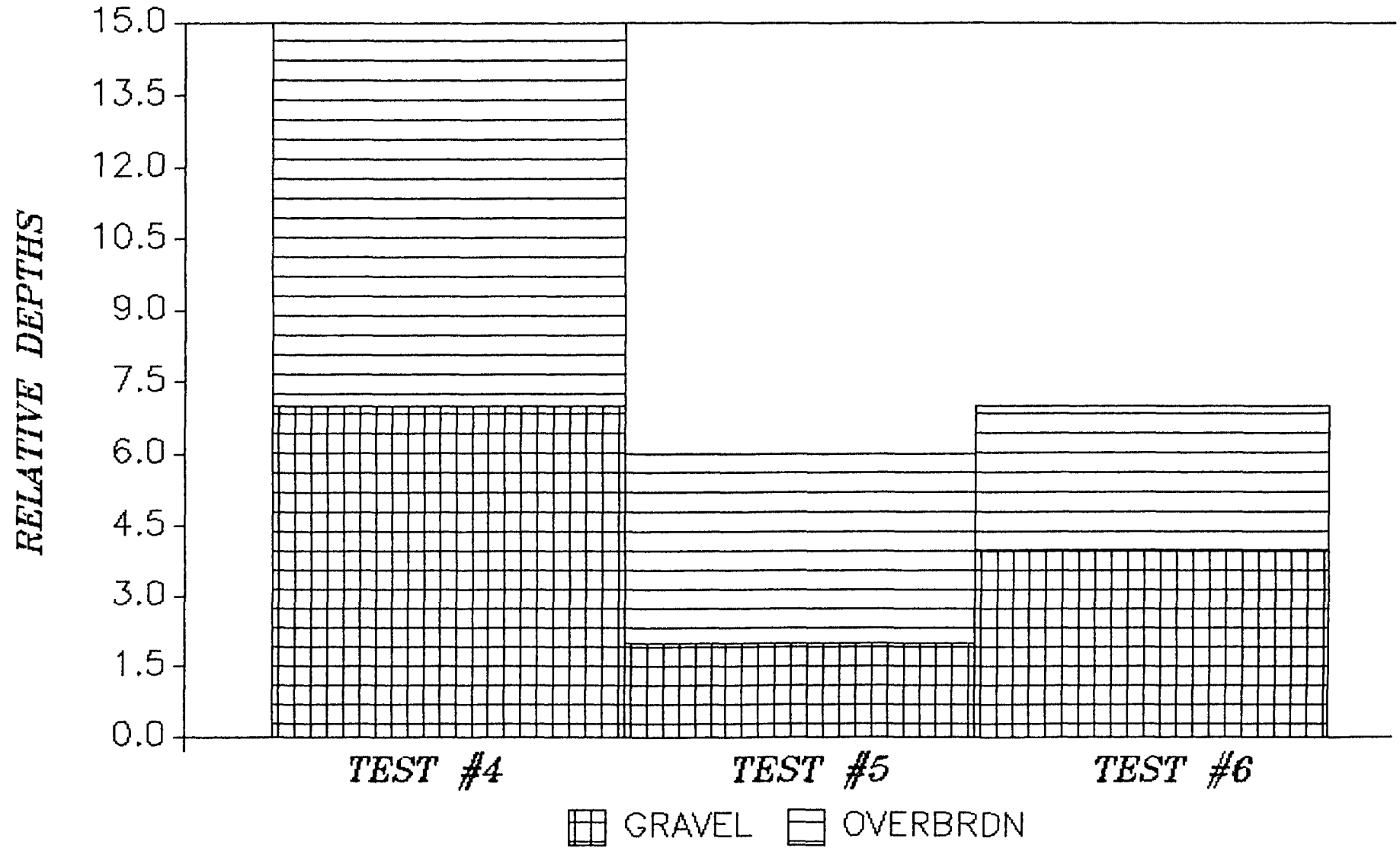
The bulk test varied in the material that was sluiced, some were surface gravels, some were a cross survey of all the gravels and one was mostly 6" - 12" of bedrock gravels. The main locations of the bulk test were as seen on Map D-1

TEST RESULTS

1. 50 cubic yards of surface gravels sluiced and 2.19 grams of gold was recovered.
2. Test #2 consisted of 40 cubic yards of gravel sluiced, this gravel was also surface gravel and 1.2 grams of gold was recovered.
3. A vertical sample was sluiced comprising of gravels of every level totaling 33 cubic yards. A total of 21.2 grams of gold was recovered.
4. A 50 cubic yard sample was sluiced, this gravel consisted mostly of bedrock material and 33.4 grams of gold was recovered from this test.
5. An area 150 ft by 300 ft was stripped approx 1 meter deep. A small hand test was conducted here, good gold indications were found.
6. Two large test holes were dug using the track hoe at this location, bedrock was found at shallow depths but very poor gold indications were found.
7. In all the above bulk tests, considerable overburn muck was stripped before enough gravels were exposed to be sluiced

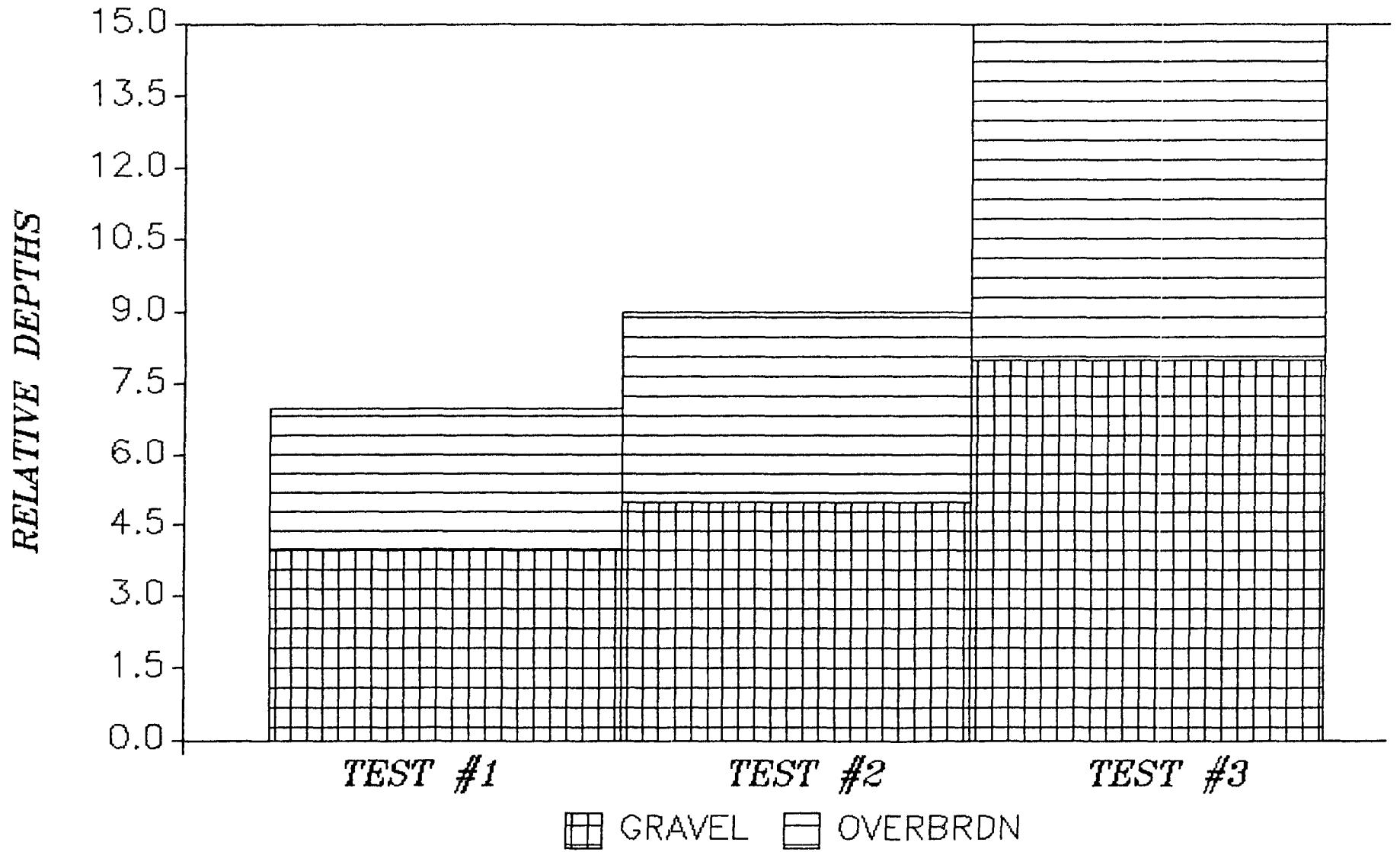
BULK TESTS

DEPTHS OF OVERBURDEN & GRAVELS



BULK TESTS

DEPTHS OF OVERBURDEN & GRAVELS



RIVEST BROS.

MONTANA CREEK
 UKON TERRITORY
 JULY 1987

BULK TEST RESULTS

	BANK YARDS PROCS D	WT (GR) GOLD RECOVERED	VALUE PER YARD *	DEPTH OVRBRDN (FEET)	DEPTH GRAVELS (FEET)	BEDROCK (Y/N)
TEST #1	50	2.19	\$0.83	3	4	N
TEST #2	40	1.00	\$0.48	4	5	N
TEST #3	33	21.20	\$12.23	7	8	Y
TEST #4	50	33.70	\$12.83	8	7	Y
AVERAGE	43.25	14.52	\$6.39	5.50	6.00	

* VALUE PER YARD CALCULATED AT \$592 CDN/OZ.

BEDROCK - N -INDICATES BEDROCK NOT REACHED DUE TO PERMA-FROST

HAND PANNED SAMPLES

	NO. OF COLORS	DEPTH OVRBRDN (FEET)	DEPTH GRAVELS (FEET)	BEDROCK (Y/N)
TEST #5	30	4	2	N
TEST #6	3	3	4	Y

RIVEST BROS.

MONTANA CREEK
 SPOKANE TERRITORY
 JULY 1987

BULK TEST RESULTS

	BANK YARDS PROCS	WT (GR) GOLD RECOVERED	VALUE PER YARD *	DEPTH OVRBRDN (FEET)	DEPTH GRAVELS (FEET)	BEDROCK (Y/N)
TEST #1	50	2.19	\$0.63	3	4	N
TEST #2	40	1.00	\$0.36	4	5	N
TEST #3	33	21.20	\$9.30	7	8	Y
TEST #4	50	33.70	\$9.75	8	7	Y
AVERAGE	43.25	14.52	\$5.01	5.50	6.00	

* VALUE PER YARD CALCULATED AT \$450 US/OZ.

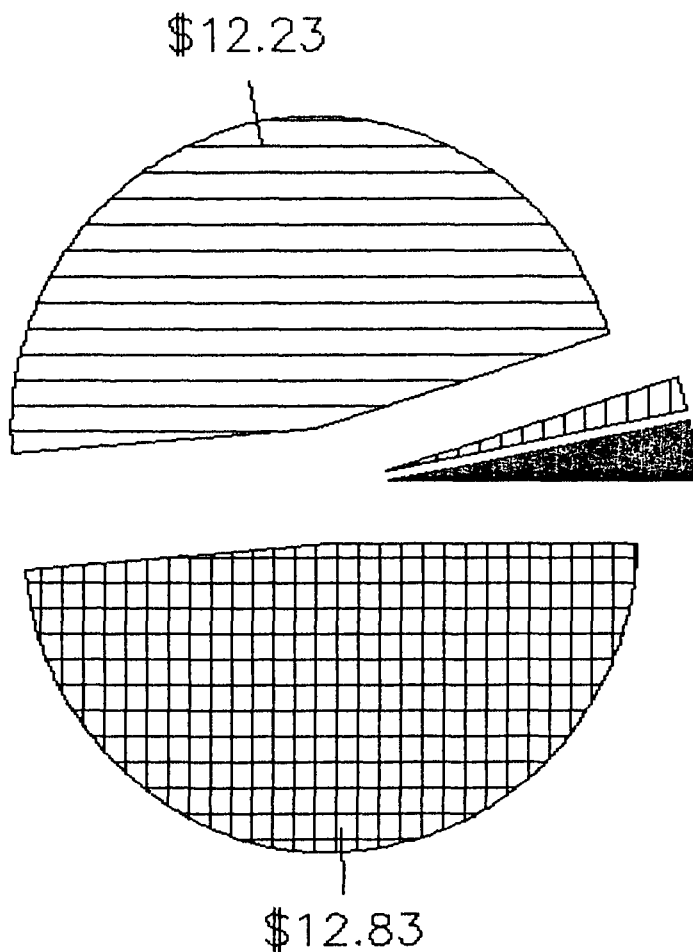
BEDROCK - N -INDICATES BEDROCK NOT REACHED DUE TO PERMA-FROST

HAND PANNED SAMPLES

	NO. OF COLORS	DEPTH OVRBRDN (FEET)	DEPTH GRAVELS (FEET)	BEDROCK (Y/N)
TEST #5	30	4	2	N
TEST #6	3	3	4	Y

GOLD VALUES

RELATIVE VALUES - CDN DOLLARS/YARD



TEST #1

TEST #2

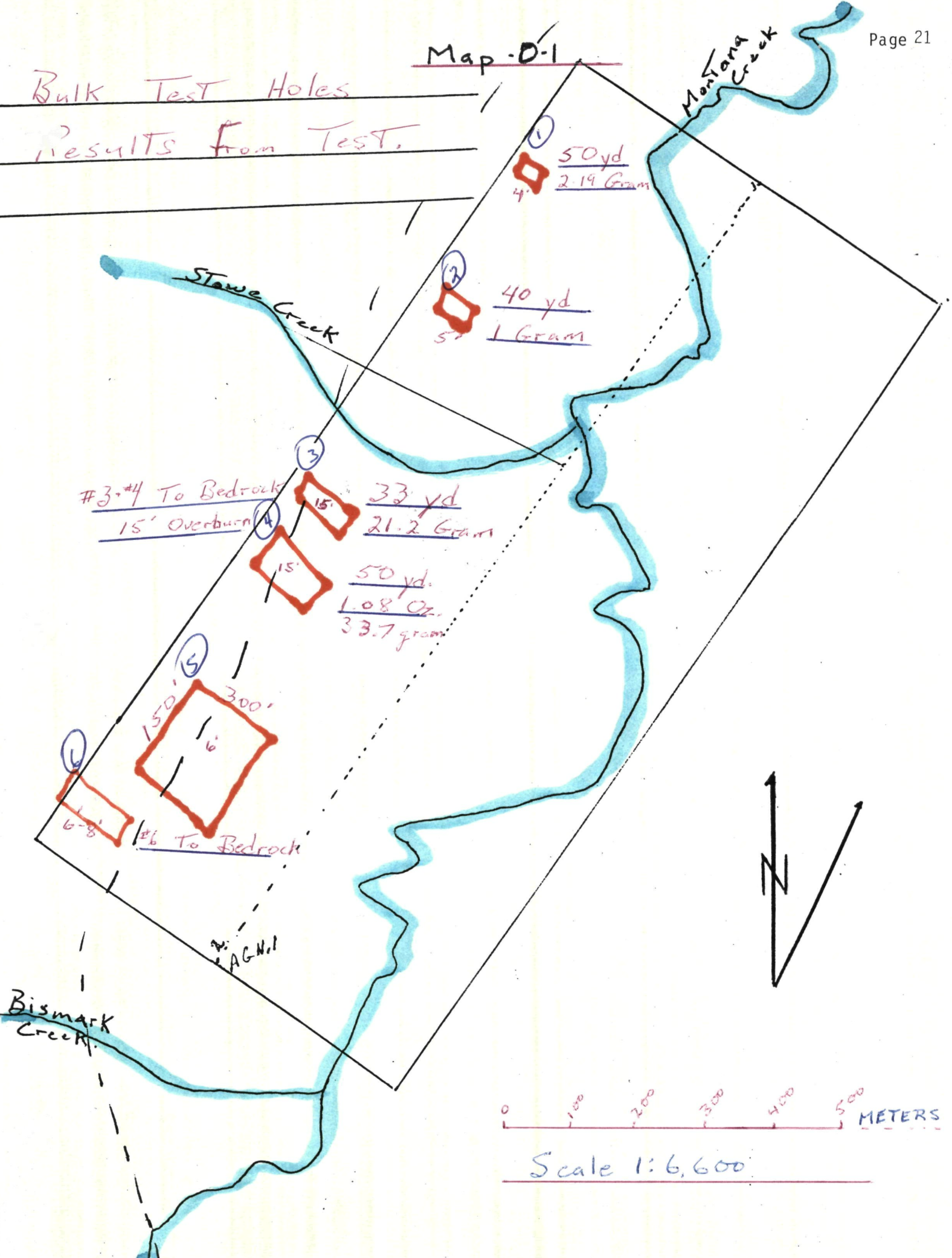
TEST #3

TEST #4

Map D-1

Bulk Test Holes

Results from Test.



3. SUMMARY

It is recommended before spring thaw, the bench should be stripped of overburn muck using a D7 or D8 Cat. The property should then be allowed to thaw until July 1, 1988 at which time, using a D7 or D8 Cat, the top 3'-4' of low-grade gravel can be stripped and wasted. These gravels can be used to build holding ponds, dikes, etc. in preparation for sluicing.

By the end of July 1988, the gravel to bedrock should be thawed enough to begin sluicing. A medium size 700 - 1000 cubic yard per day operation is recommended for this property due to the limited quantities of pay gravels. It is believed that there would be approx. 40,000 - 50,000 cubic yards of pay gravel to sluice and could be completed with a 2 - 3 man crew.

This project should not take more than one season to complete.

PHOTO CAPTIONS

The following is a photo report of our mobilization, drilling, backhoe work, bulk test sampling and demobilization of our activity on Montana Creek.

Our equipment was located in the Old Clinton Creek Townsite and this is where we will start:

1. Mobilization from Clinton Creek to Montana Creek

Photo's #1, 2, 3, 4

Show the Kenworth loaded with the J.S.W. 45 backhoe and the 941 Track Loader.

These photos also show:

- a) The Atco Wellsite Camp unit
- b) Tent Trailer
- c) Holiday Trailer
- d) Welder Trailer
- e) Two Wheel Trailer hooked to a 3 Wheel ATC loaded with Drill stem pipe.

Photo's #5, 6, 7

Mobilization to Montana Creek

Photo #8

Shows our LeRoi 135 C.F.M. air compressor we used on the project. Unfortunately we had better results using water.

Photo #9

The Test Trommel (Gold Bug) ready to be hauled by 3/4 ton 4x4 to Montana Creek.

Photo's #10, 11, 12

Are all at the new camp at Montana Creek

- Photo #10 - Lister generator used for the camp
- #11 - Tent Trailer
- #12 - Atco Wellsite unit and 3 Ton G.M.C. with 300 Amp Welder.

Photo's #13, 14, 15

All show the Montana Creek Valley. Photo #15 - the valley is fogged in.

Photo #16, 17, 18

Shows the road from camp to the lease. Photo #17 shows the use of the 3 Wheel ATC's used on the project.

Photo's #19, 20, 21, 22, 23, 24

Mobilization to the lease - which includes road building, building bridges and some stripping in preparation for drilling. Photo #24 - an old roadhouse next to Montana Creek.

Photo's #25, 26, 27, 28, 29, 30, 31, 32, 33

All these show mobilization on the lease and preparation for drilling.

2. Drilling

Photo's #34, 35, 36

Drilling on the lease

3. Backhoe Work

Photo's #37, 38, 39

Some stripping and backhoe work in preparation for the bulk test samples.

4. Bulk Test Sampling

Photo's #40, 41, 42

Bulk Test samples (sluicing using the backhoe, test trommel and 941 track loader.

5. Demobilization

Photo's #43, 44, 45

Demobilization

6. Photo #46 - Member of the Klondike Placer Miners Association



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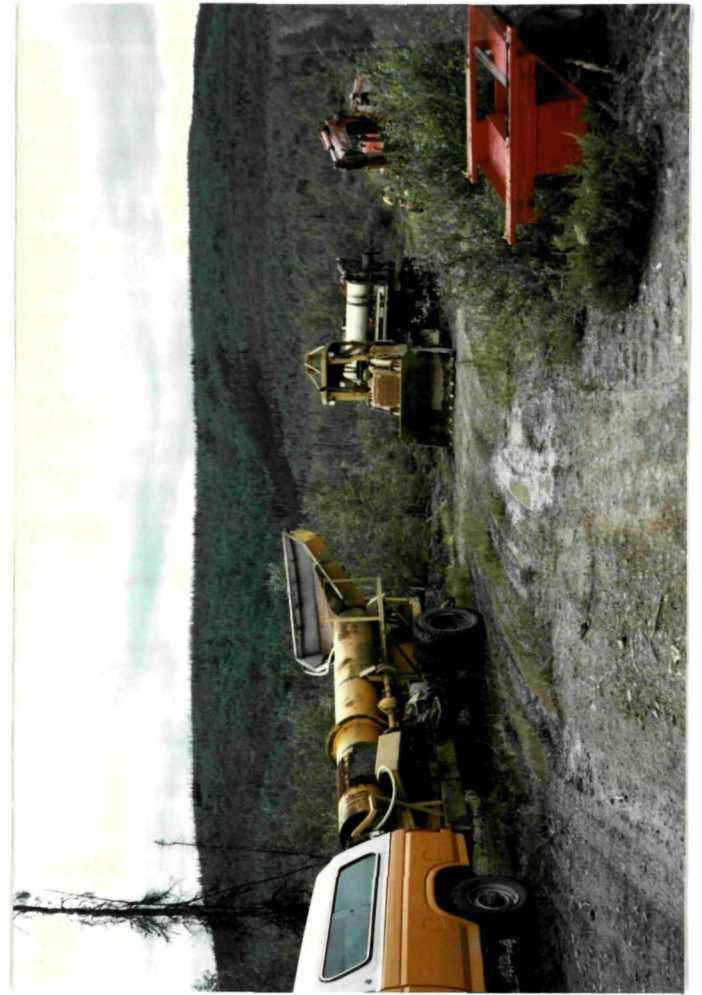
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This is to certify that

Mr. JACK RIVEST

*is a member in good standing
of the*

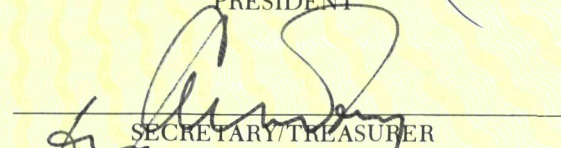
KLONDIKE PLACER MINERS ASSOCIATION

for the year 19⁸⁷.



OUR GOLDEN HERITAGE


PRESIDENT


SECRETARY/TREASURER

Pipeline crawler gets inside information

A NEW SYSTEM that can X-ray more than 250 pipeline welds a day at a cost saving estimated at about 50% is being used by an Alberta company

Rivest Bros Enterprises (1977) Ltd, a non-destructive testing company based in Edmonton, is working on a 62 kilometre long gas transmission line for Saskatchewan Power Corp. The line runs from Bronson Lake (11-61-22W3) to Beacon Hill (6-56-27W3). It's a \$6.3 million project with six and 12 inch pipe.

For the weld inspections, Rivest Bros is using an internal pipeline crawler called a Gammamat M, produced by Isotopen Technik of West Germany. Rivest bought the unit in 1985 for \$40,000, and added a further \$45,000 in equipment. The unit operates in six to 24 inch diameter pipe and is currently doing about 270 twelve inch welds per day.

"If we were doing this conventionally we'd need three units and six men," says general manager Simon Rivest. "Using the Gammamat, we have one unit, one darkroom and four men. I'd estimate the cost savings at 50%."

The unit is battery powered, self propelled, 42 inches long and weighs about

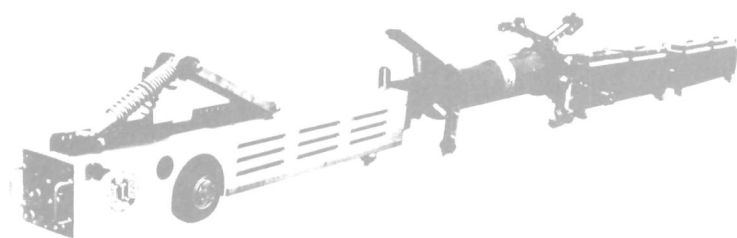
OILWEEK/OCTOBER 26, 1987

65 pounds. The crawler can examine two kilometres of pipe without battery change or recharge and can climb a 45 degree slope. Inside a level pipe the unit moves about 14 metres per minute.

The unit is controlled from outside the pipe by an operator and uses Iridium 192 as its radiation source. It provides the advantage of single shot inspection of each weld from inside, a method preferred by a number of companies because of its speed and sensitivity to defects.

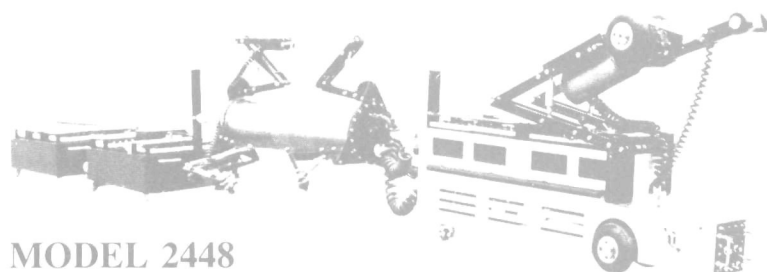
INTERNAL CRAWLERS

X - RAY



MODEL 1222

The Model 1222 designed for internal x-ray inspection of pipeline welds in pipe diameters from 12 inches through 22 inches has a complete length of 139 inches and total weight of 390 pounds. The crawler consists of four interconnected sections: The drive section (48 inches, 116 pounds), The x-ray section (50 inches, 58 pounds) and two battery sections (41 inches, 108 pounds each). The 1222 crawler has a maximum output of 160KV-3MA and will travel through the pipe at a rate of 60 feet per minute.

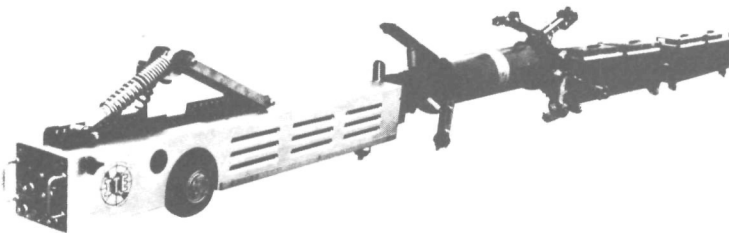


MODEL 2448

The Model 2448 designed for internal x-ray inspection of pipeline welds in pipe diameters from 24 inches through 48 inches can be powered by either batteries or generator. The battery powered crawler has a maximum length of 136 inches and total weight of 625 pounds and consists of four interconnected sections. These sections include: The drive section with batteries (48 inches, 215 pounds), The x-ray section (40 inches, 90 pounds), and two battery sections (24 inches, 160 pounds each). With the generator powered crawler, the battery sections are eliminated and replaced with a generator section (38 inches, 195 pounds). The batteries in the drive section provide reserve power in the event of generator failure. The Model 2448 has a maximum output of 225KV-3MA and a travel speed of 60 feet per minute.

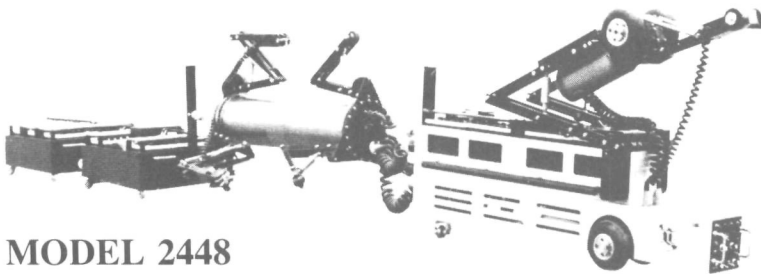
INTERNAL CRAWLERS

X - RAY



MODEL 1222

The Model 1222 designed for internal x-ray inspection of pipeline welds in pipe diameters from 12 inches through 22 inches has a complete length of 139 inches and total weight of 390 pounds. The crawler consists of four innerconnected sections: The drive section (48 inches, 116 pounds), The x-ray section (50 inches, 58 pounds) and two battery sections (41 inches, 108 pounds each). The 1222 crawler has a maximum output of 160KV-3MA and will travel through the pipe at a rate of 60 feet per minute.

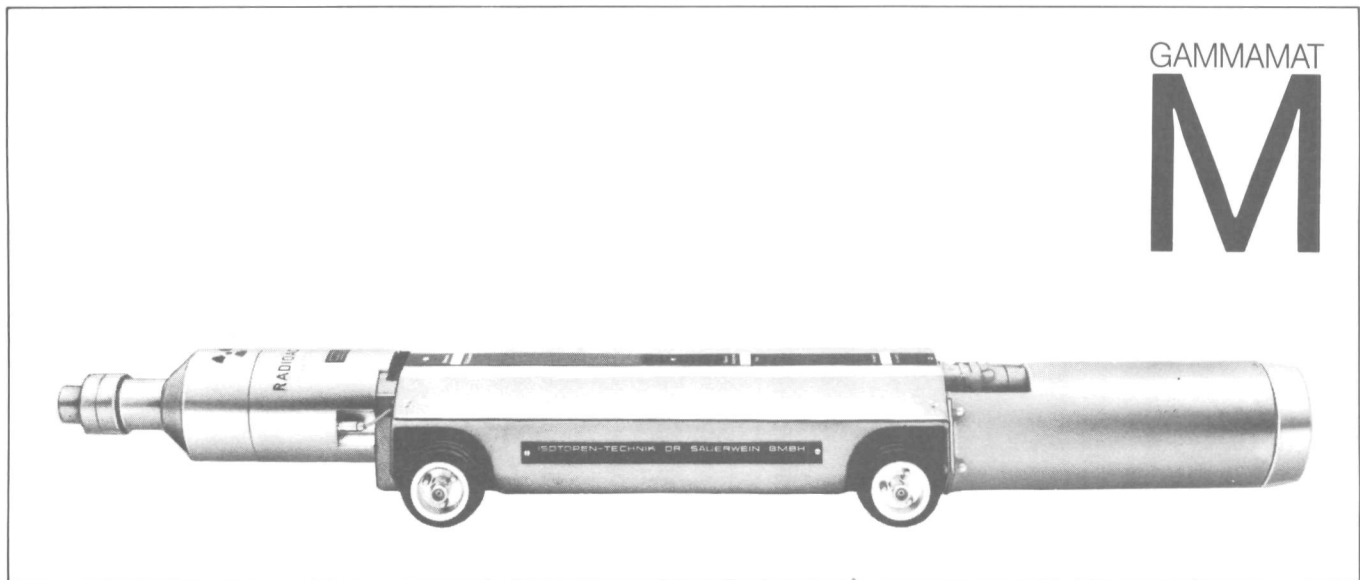


MODEL 2448

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INTERNAL CRAWLERS

GAMMA - RAY



SPECIFICATIONS

Source Iridium 192
Range of Pipeline Diameter 6" - 24"
Dimensions (overall length x O.D.) 1.2 m x 0.14 m
Weight 30 kg (65 lbs.)
Max. Pipeline Length to be examined without battery change or recharge Approx. 2 km
Maximum Inclination 45°
Crawler Speed (horizontal) 14 m per min.
Minimum Radius of Curvature 10 x D.

Rivest Bros. Enterprises (1977) Ltd.

2220 - 80 AVENUE
STATION "L"
EDMONTON, ALBERTA T6P 1N2
TELEPHONE 440-6630

Rivest Bros. Enterprises (1977) Ltd. is pleased to submit for your review the following information regarding our company, personnel, inspection capabilities, clients, equipment and past performances.

Recognizing that the customer is the heart of any business, Rivest Bros. strives at all times to keep the customers' needs and quality requirements in mind through the development of our people and the upgrading of our equipment.

Realizing our business as being one of service, we will at all times:

- offer our customers only services of the highest quality.
- offer our customers availability of the most up to date equipment.
- offer our customers expedient service by highly skilled Technicians at competitive prices.

Our Technicians are certified to C.G.S.B., A.S.N.T. and hold valid St. John's Ambulance certificates. All rules and regulations pertaining to the Occupational Health and Safety Act are followed and enforced.

Our fleet primarily consists of 3/4 Ton 4x4 Mobil Units, 1 Ton Mainline Units, as well as stationary trailers, fully equipped to enable our Technicians to perform a continuous and efficient service, anywhere in Canada.

24 HOURS A DAY

7 DAYS A WEEK

Rivest Bros. Enterprises (1977) Ltd. are specialists in N.D.T. Technology.

Quotations supplied on request

Rivest Bros. Enterprises (1977) Ltd.

SERVICES OFFERED

BY

RIVEST BROS. ENTERPRISES (1977) LTD.

Radiography Division

- Gamma Ray and X-Ray
- Weld Quality Control
 - Wall Thickness Gauging
 - Flaw Detection Metallics and Non-Metallics
 - Investigation of Equipment Internals
 - Consulting and Interpreting of Radiographic Techniques

Technical Services Division

Preventative Maintenance Inspection

- Non-Destructive Testing
- Ultrasonics
 - Magnetic Particle
 - Dye Penetrant
 - Hardness Testing

NDT FIELD & SHOP SERVICES

RADIOGRAPHY :

Radiography is one of the most useful tools in the N D.T. field. Its application is ideal for fabricated assemblies, pipelines and on stream preventative maintenance programs.

All Rivest Bros. Enterprises (1977) Ltd. personnel are trained and duly certified in accordance with Federal Government specifications, C.G.S.B. 48-GP-4M and to The American Society of Non-Destructive Testing Code SNT-TC-1A proficiency.

Our self-contained mobil darkrooms, most complete with mobil radios are available for our customers field requirements. For longer term projects we have project trailers that can be moved to a site on demand.

Rivest Bros. Enterprises (1977) Ltd. have been supplying Radiographic Services for the past fifteen years. Throughout this time, we have worked for all of the major oil companies on their pipeline projects. Thousands of kilometers of pipeline, both large and small diameter, have been radiographically inspected by Rivest Bros. Technicians.

A new GAMMAMAT M Internal Crawler was introduced into the fleet in 1985. This latest model with a range from 6" to 24" compliments the 12" to 22" and 24" to 48" ITE X-Ray Crawlers already in stock. In today's pipeline construction work an exact radiograph inspection of circumferential welds is required. In order to achieve radiographs of sufficiently high resolution, a true radial beam has to be used, i.e. the source of the rays has to be accurately centered inside the circumferential weld. Our completely self-contained GAMMAMAT M Pipeline Crawler fully satisfies these requirements. In addition, it provides the advantage of a single shot inspection for each weld which leads to a tremendous increase in inspection speed. The GAMMAMAT M is fully battery operated and does not need auxiliary power.

Rivest Bros. Enterprises (1977) Ltd are constantly striving towards the goal of offering our customers the most sophisticated equipment to service their requirements in the most efficient and quality conscious way possible.

Rivest Bros. Enterprises (1977) Ltd.

TECHNICAL SERVICES DIVISION

Non-Destructive Testing Services

Rivest Bros. Enterprises (1977) Ltd. retains shop and field personnel certified by the Canadian Government Specifications Board (C.G.S.B.) in the following categories and certified to The American Society of Non-Destructive Testing, Code SNT-TC-1A proficiency method

CGSB 48-GP-7M	Ultrasonic Method
CGSB 48-GP-8M	Magnetic Particle
CGSB 48-GP-9M	Liquid Penetrant

A complete complement of portable equipment allows our technician to go directly into the shop or worksite to carry out the non-destructive tests.

Procedures and reports are prepared according to the applicable code requested by our clients.

All of these field services are also undertaken in our shop in Edmonton.

Rivest Bros Enterprises (1977) Ltd

CLIENT LIST

AEC PIPELINES
ALBERTA GAS ETHYLENE
ALBERTA GAS TRUNKLINE
AITON POWER
ALCO
ALTOP WELDING
AMOCO CANADA
APPLIED ENGINEERING
AQUITAINE
ASSOCIATED KELLOGG
ATCOR RESOURCES
BP RESOURCES
BABCOCK WILCOX
BARBER INDUSTRIES
BLUESKY OIL & GAS
BOW VALLEY INDUSTRIES
BOW RIVER PIPELINES
BONANZA OIL & GAS
BRAIDNOR
BRENDA MINES
BROWN & ROOT
CAMEL OIL & GAS
CANADIAN HUNTER
CANADIAN OCCIDENTAL
CANADIAN SUPERIOR
CANADIAN WORLDWIDE ENERGY
CANPED
CANTERRA ENERGY
CANUCK ENGINEERING
CASALT ENGINEERING
C E NATCO
CESSCO
CHIEFTAIN
CHEVRON CANADA
CIMARRON PETROLEUM
COLT ENGINEERING
COMMONWEALTH CONSTRUCTION
CORD PROJECTS
D P H
DEKALB PETROLEUM
D M WOLCOTT & ASSOC.
DELTA PROJECTS
DILLINGHAM CORP
DOME PETROLEUM LIMITED
DOMINION BRIDGE
DRUMMOND OIL & GAS
ENERPET
ESSO RESOURCES
F D.S.
FEDERATED PIPELINES
FLINT ENGINEERING
FISH
FLUOR CANADA
GANE ENERGY
GARDNER DENVER
GASCAN RESOURCES
GENERAL AMERICAN OIL
GIBSON PETROLEUM
GRANT PHIPPS TSUTSUMI
GULF CANADA
H.M.W. CONSTRUCTORS
HOME OIL
HUSKY
HYCON
I.C.G. RESOURCES
IMPERIAL OIL
IMPERIAL PIPELINE
INTERPROVINCIAL PIPELINE
J.M. HUBER CORP.
KENTING OILFIELD
KERR MCGEE CORP.
KEY LAKE MINES
KILBORN, KELLOGG & RUST
KODIAK
LANMARK PETROLEUM
LUDWIGS WELDING
LUSCAR
MANNVILLE OIL & GAS
MECALTA IND.
MERLAND EXPLORATION
METALLURGICAL CONSULTING
MOBIL OIL
NEWALTA CORP.
NEZ PERCE ENG.
NORCEN ENERGY
NORTH CANADIAN OILS
NORTHWESTERN UTILITIES
NOVALTA RESOURCES
NOVA, AN ALBERTA CORP.
OCELOT INDUSTRIES
O'ROURKE ENGINEERING
PAMCO
PAN CANADIAN PETROLEUM
P C.L. IND.
PEACE PIPE LINE
PEMBINA PIPE LINES
PETRO CANADA
PROCOR LIMITED
QUINTANA EXPLORATION
RAINBOW PIPELINE
RANGER OIL
RANCHMENS RESOURCES
REIDS WELDING
ROOP PETROLEUM
SASK OIL
SASK POWER

Rivest Bros Enterprises (1977) Ltd

SASKATOON BOILER
SCEPTRE RESOURCES
SHELL CANADA
SOQUIP
SPITZEE RESOURCES
SIGNALTA RESOURCES
STRAND OIL & GAS
SULPETRO
SUNCOR INC.
SUNDANCE
TENNECO
TEXACO
TEXAS PACIFIC
T.I.W. IND.
THOMSON JENSEN PETROLEUM
TRI CENTROL OILS
TOTAL PETROLEUM
TRANS CANADA PIPELINES
TRANS MOUNTAIN
UNION OIL
UNIVERSAL
UNOCAL CANADA
UMA ENGINEERING
UNICORP RESOURCES
VAPOR TECH SYSTEMS
VOYAGER PETROLEUM
WESTERN DECALTA
WORLDWIDE ENERGY
WESTCOAST PETROLEUM
WESTMIN RESOURCES

Rivest Bros Enterprises (1977) Ltd

MAJOR EQUIPMENT LIST

22 Mobile Darkrooms mounted on 3/4 Ton 4 X 4's fully equipped for efficient service.

GAMMA RAY Cameras

Mainline Spread Production Units

ITE Pipeline Crawlers 12" - 22", 24" - 48"

XRAY TUBES - 360° Panoramic Spot 160 KV - 250 KV

Gammamat Crawler - 6" - 24"

All Terrain Vehicles supplied on request

Trailers (on site c/w darkrooms and offices)

LIST OF MAJOR CONTRACTS AWARDED OVER THE PAST THREE YEARS

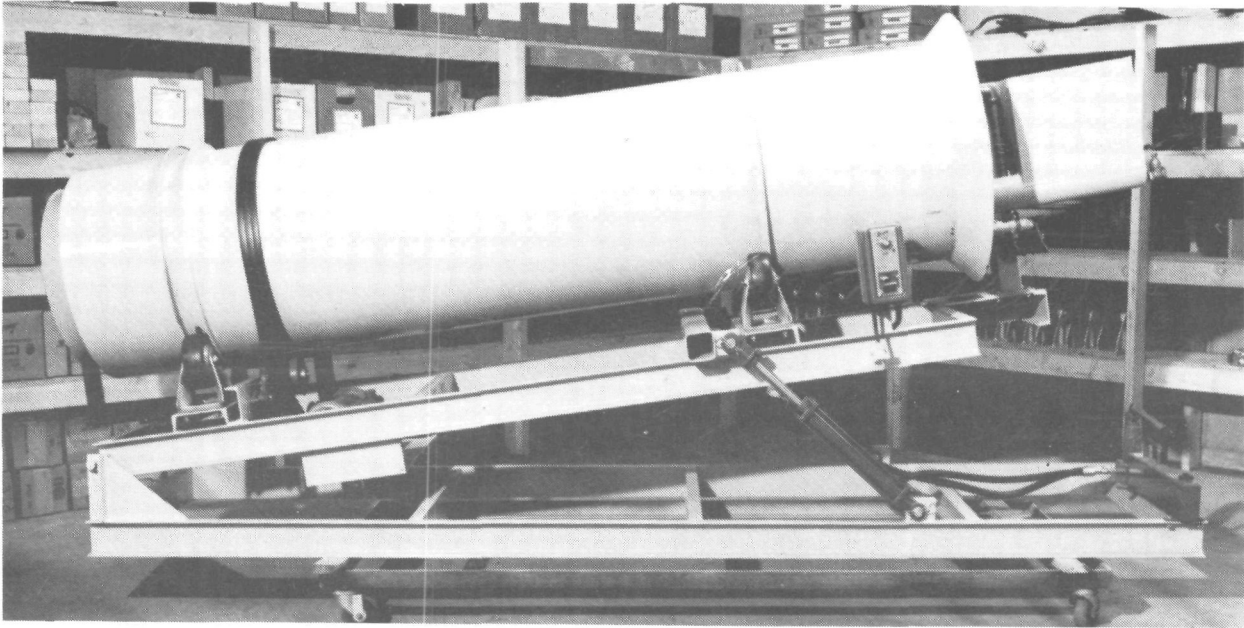
ALBERTA NATURAL GAS	HANK BARTELL	75 KM. 12"	PEACE RIVER
AMOCO CANADA PETR.	PETE GEISBRECHT	220 KM 4,6,8"	NIPISI
AMOCO CANADA PETR.	KASH VERMA	PIPELINE, PLANT	ELK POINT
OCELOT INDUSTRIES	ANDY JOOSTEN	25 mt 12"	MAPLE CREEK
PETRO CANADA	FRED SCHWEITZER	PLANT	PROVOST
PETRO CANADA	FRED SCHWEITZER	PIPELINE	BRAZEAU
SASKOIL	BRUCE GREENBANK	MISC. PIPELINES	SASKATCHEWAN
KEY LAKE MINES	CHAN LEONG	MINE	SASKATCHEWAN
INTERPROVINCIAL PIPELINE	AL McLEOD	34"PIPELINE & STNS	CAMROSE, SASKATCHEWAN
WESTCOAST PETROLEUM	WAYNE SCHNEIDER	CEMENT PIPELINE	WINFIELD
PETRO CANADA	KEITH McAULEY	PLANT	BELLSHILL LAKE
NOVA	W. MONAGHAN	12",16"PIPELINE	LAC LA BICHE
REIDS/ESSO	WAYNE REID	16" HVY WALL	GRAND CENTRE
CANADIAN HUNTER	OLE JENSEN	PIPELINE	GRANDE PRAIRIE
TRANS CANADA PIPELINES	H.C W. FRANKLIN	UPGRADING	WINNIPEG TO NORTH BAY
UMA ENGINEERING	DOUG CEBRYK	100 KM PIPELINE	SASKATCHEWAN
TORONTO IRON WORKS	JERRY SEGUIN	AMMONIA TANK	VADE SASKATCHEWAN
INTERPROVINCIAL PIPELINE	AL MCLEOD	PHASE III STNS	ALBERTA & SASKATCHEWAN

MILL-SPEX, INC.

MANUFACTURER OF MINERAL RECOVERY SYSTEMS

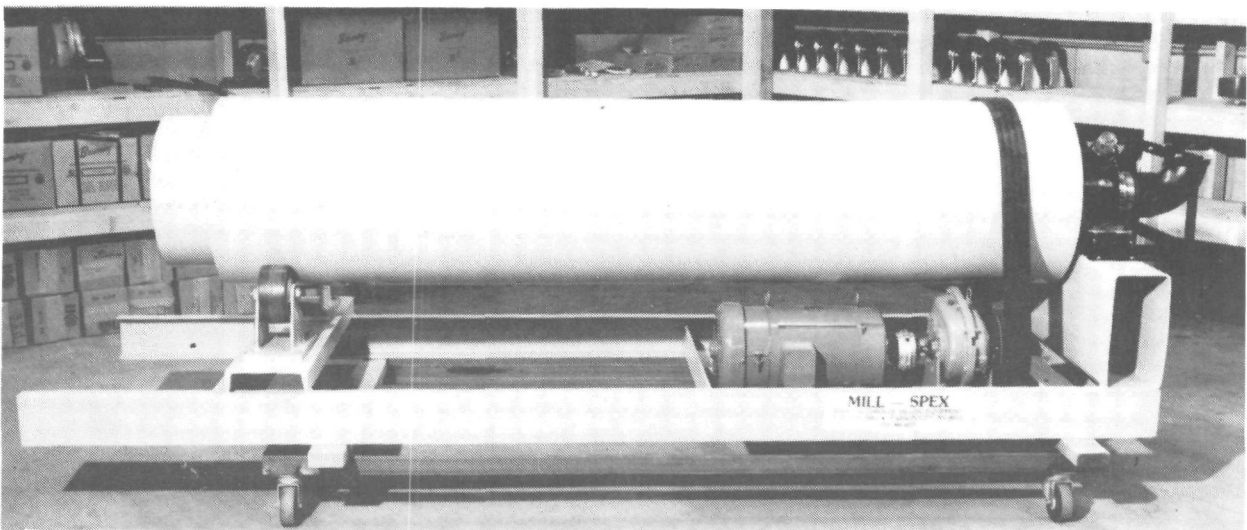
P.O. BOX 1595 • CARSON CITY, NEVADA 89701
TELEPHONE: (702) 883-4024

THE MILL-SPEX SYSTEM FOR CENTRIFUGAL AND GRAVITY CONCENTRATION



MILL-SPEX SPIRAL CONCENTRATOR

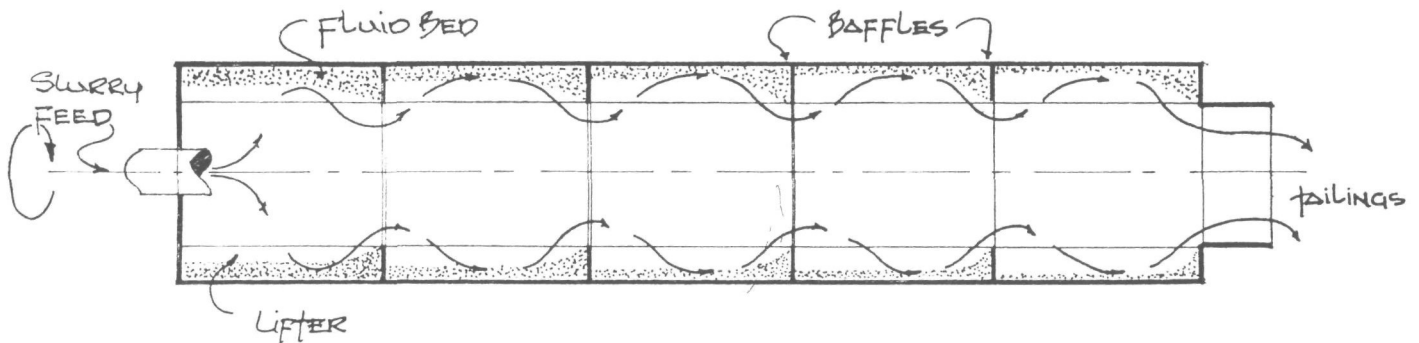
This brochure introduces a proven alternative to conventional placer and hardrock mining and milling techniques. It is not intended to convey to the mine operator that the system described herein constitutes a universal solution for all that may afflict an individual operation or the industry as a whole. It will, however, describe the process and its obvious advantages over systems in current use.



MODEL 20 - CENTRIFUGAL CONCENTRATOR

CENTRIFUGAL CONCENTRATION

The Mill-Spex process relies on efficient washing and screening for placer operations and good milling practice for hardrock applications, (efficient grind to liberate minerals desired). The wash water is retained within the system and the resultant slurry or pulp containing approximately 30% solids is passed through one or more concentrators. (See Diagram).



These concentrators contain a series of baffles and lifters and while rotating at a predetermined speed, retain or reject, as required, materials of differing specific gravity. The centrifugal force acts in opposition to the movement of the solids propelled by water through the length of the concentrator. As long as the bed of materials adhering to the inner surface of the concentrator remain fluid; materials of higher specific gravity will displace those of lower specific gravity. This process continues until the concentrator is fully charged and commences to reject materials of a specific gravity close to those desired to be retained.

Discharge of concentrate is accomplished by discontinuing raw feed and reducing water flow to the system while maintaining operating revolutions. The discharge to tailings is diverted to a catchment or tote box. The revolutions on the concentrator is then reduced and the momentum of water flow flushes the concentrate out of the concentrator. Discharge from the concentrator is then diverted back to tailings, operating revolutions, water volume and raw feed is resumed. Elapsed time for this operation seldom exceeds five or six minutes and frequency will be a product of experience on a given piece of ground or milled ore.

CENTRIFUGAL CONCENTRATOR SPECIFICATIONS

MODELS:

Model 12:	Capacity: One yard per hour through-put H. P.: 3/4 hp S.C.R. 115 volt single phase Water: 20 gallons per minute
Model 16:	Capacity: Five yards per hour through-put H. P. : 1 1/2 hp S.C.R. volt single phase Water: 75 gallons per minute
Model 20:	Capacity: Ten yards per hour through-put H. P.: 3 hp S.C.R. 230 volt single phase Water: 150 gallons per minute

Average Operating
Speed
All Models
150 R.P.M.

17,500

INSTALLATION DIMENSIONS

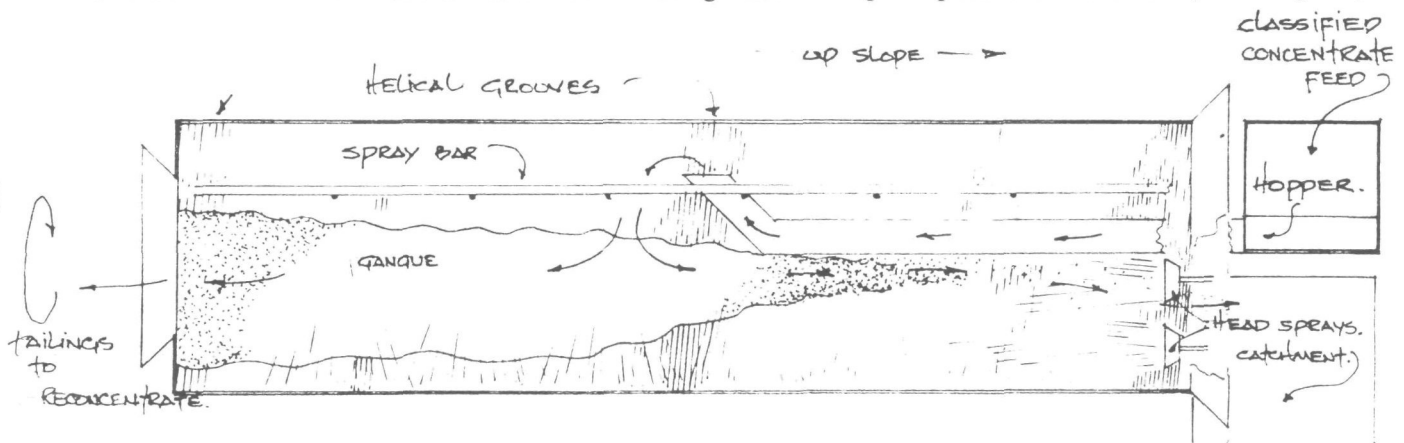
Model	Length	Width	Height	Shipping Weight
Model 12	64"	30"	24"	450 lbs.
Model 16	102"	36"	32"	850 lbs.
Model 20	120"	36"	36"	1000 lbs.

GRAVITY CONCENTRATION

The Mill-Spex System of separating values from Concentrates recovered from a sluice box, jig or Mill-Spex Centrifugal Concentrator is accomplished in two simple stages.

The concentrate should be processed through a classifier such as a Sweco Vibro-Energy Screen and classify into two or three fractions. The necessity of this first stage treatment is extremely important if precise separations are to be accomplished.

The fractionalized concentrate is then fed through the Mill-Spex Spiral Concentrator. (See Diagram)



The Mill-Spex Spiral Concentrator, rotating with a variable speed control, works with flowing water against specific gravity and rolling replacement. Commencing with the coarse fraction; the material is fed into a hopper and introduced to the inclined and revolving cylinder at about the mid point. Overlapping sprays from a spray bar extends the full length of the concentrator keeps the concentrate from climbing the side of the cylinder as it revolves.

As the heavier material is propelled up slope by the action of a helical liner in the inner surface of the cylinder, one adjustable spray at the head end of the cylinder, can be controlled to give a definite division in the specific gravity of materials allowed to pass through the spray and out the head end of the cylinder to a catchment.

Tailings from the Mill-Spex Spiral Concentrator are reconcentrated by passing directly into a Mill-Spex, Model 12, Centrifugal Concentrator. This final phase is insurance to increase the efficiency that may result in loss of by-product values to tailings.

Separation of values using the Mill-Spex System is simple, fast and reliable. It requires only a short instructional period to familiarize a new operator with the technique of handling his own particular separation problem.

SPECIFICATIONS: Usual range of power and production for the Mill-Spex Spiral Concentrator.

H. P.: 3/4 hp, 115 volt single phase S.C.R. drive.
Water: 20 gallons per minute at 40 to 50 psi.
Capacity: One ton per hour as a clean-up unit, two tons per hour as a primary concentrator.
Hydraulics: Two 2 x 10 cylinders with hand operated pump for pitch control.

DIMENSIONS AND WEIGHT: For installation purpose.

	Length	Width	Height	Shipping Weight
Skid Mounted:	124"	38"	48"	1200 lbs.
Portable:	158"	61"	63"	1400 lbs.

WE MANUFACTURE:

PORTABLE PLACER PLANTS

CONVEYORS

HOPPERS

FEEDERS

TEST PLANTS – STATIONARY AND PORTABLE

ELECTRICAL POWER HOUSES

OPERATOR CONSULS

CATWALKS AND RAILINGS

MILL-SPEX, INC.

MANUFACTURER OF MINERAL RECOVERY SYSTEMS

P.O. BOX 1595 • CARSON CITY, NEVADA 89701

TELEPHONE: (702) 883-4024