

5986

DRILL REPORT - KUTCHO DDH # 52

LIN 11, 39, 40, KRIS 1-9, 11-16, JET 1-3,
BRUIN 1-2, PY 1-14, 16, 18, 20 Mineral Claims

Liard Mining Division - 104-I-1W/2E

by

D.A. Bridge
Imperial Oil Limited
Vancouver, B.C.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 5986 MAP.....

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Location Map - DDH # 52	Scale: 1 in. = 1,000 ft.

DIAMOND DRILL CORE LOG

PROPERTY:	Kutcho Creek	LOCATION:	140 W - 33 + 15 N
DRILL HOLE NO.	52	CLAIM:	PY # 7 (70928)
AZIMUTH:	180 ^o	CORE SIZE:	BQ
INCLINATION:	-50 ^o	CONTRACTOR:	Arctic Diamond Drilling, Whitehorse, Y.T.
LENGTH:	477'	CORE STORAGE:	Imperial Oil Camp
ELEVATION:	4,965'		Kutcho Creek, B.C.

DESCRIPTION

FROM	TO	DESCRIPTION
0	14	Overburden
14	16	Rhyodacite
16	17	Fault breccia
17	20	Siliceous argillite
20	28	Felsic sandstone, calcareous with interbedded graphitic argillite
28	66	Interbedded epiclastics to calcareous argillite; unit consists of cycles of quartz eye epiclastic grading to finer-grained equivalents, sandstone and argillite
66	93	Calcareous argillite and argillaceous calcareous sandstone
93	117	Epiclastics to calcareous argillite, similar to unit 28' to 66'
117	121	Chert, with minor interbedded argillite
121	178	Epiclastics to argillite. The epiclastics mainly consist of fragmental rhyolites to dacites with flattened angular fragments, commonly 3 to 8 mm thick, in a quartz-sericite matrix with minor argillite. Some units contain augen-shaped quartz eyes.
178	209	Argillite, argillaceous sandstone and argillite with coarse epiclastic fragments
209	344	Epiclastics to argillites, similar to unit 121' to 178'
344	360.5	Porphyritic rhyolite, fine quartz and feldspar phenocrysts in massive rhyolite

DIAMOND DRILL CORE LOG

PROPERTY: Kutcho Creek

DRILL HOLE NO. 52

LOCATION:

CLAIM:

AZIMUTH:

CORE SIZE:

INCLINATION:

CORE STORAGE:

ELEVATION:

DESCRIPTION

FROM	TO	DESCRIPTION
360.5	389	Rhyolite lapilli tuff breccia with minor interbedded argillite
389	437	Graphitic argillite interbedded with rhyolite lapilli tuff
437	477	Rhyolite cherty tuff with some dacitic lapilli tuff

Dave A. Birdy

COST STATEMENT

Dates Drilled August 30 - September 4, 1976

Direct Drilling Costs

477 feet at \$10.75/ft. \$5,127.75

Labour

118 man-hours at \$13.30/hr. 1,569.40

Fuel

60 gal. at \$1.80/gal.* 108.00

Core Boxes

20 boxes at \$6.00/ea. 120.00

Helicopter Support

14.9 hrs. at \$300.00/hr. 4,470.00

Helicopter Fuel

14.9 hrs. x 23 gal./hr. at \$1.80/gal.* 616.85

Drill Supervisor

Dane Bridge, Geologist - 7 days at \$70.00/day 490.00

Camp Costs

31 man-days at \$30.00/day 930.00

Office and Secretarial Costs

60.00

Total Costs: \$13,492.00

Cost per foot \$28.28

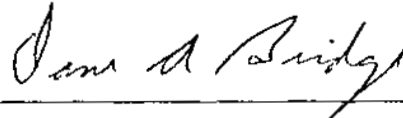
* fuel cost delivered to Kutcho Camp

STATEMENT OF QUALIFICATIONS

I, Dane A. Bridge, of West Vancouver, British Columbia, hereby certify the following qualifications:

(a) I obtained a B.Sc. Hons., in 1969, and a M.Sc., in 1972, in geology from the University of Manitoba, Winnipeg, Manitoba

(b) I have been practising my profession as a geologist in Canada for seven years.



Dane A. Bridge
Geologist
Imperial Oil Limited

SCHEDULE A

BID SHEET AND JOB SPECIFICATIONS

1. DESCRIPTION OF WORK:

The work is to consist of a series of drill holes, drilled at locations specified by Imperial. A total minimum footage of 4,000 feet shall be drilled, but total footage may be extended by mutual consent. Maximum depth of any hole shall not exceed 1,000 feet and minimum depth shall be 200 feet. The Contractor will not be called upon to drill any hole at a flatter angle than -50 degrees. Measurement of all holes shall be taken from the top of the casing pipe. If holes of a greater depth than 1,000 feet are desired, such drilling shall be performed only upon such conditions and at such rates as may be agreed upon before commencement of such drilling.

2. SCHEDULE OF RATES:

Imperial agrees to pay the Contractor for footage drilled and other services performed as follows:

(a) Coring at Bedrock

Depth Intervals	BQ	Size	Size
0 - 500 Ft.	\$ 10.75	/Ft.	\$ /Ft.
500 - 1000 Ft.	\$ 11.25	/Ft.	\$ /Ft.
1000 - 1500 Ft.	\$ 11.75	/Ft.	\$ /Ft.
_____ - _____ Ft.	\$ _____	/Ft.	\$ /Ft.

(b) Casing of Overburden

Depth Interval	
0 - 50 Ft.	\$ 10.75 /Ft.
50 - 100 Ft.	\$ /Ft.
_____ - _____ Ft.	\$ /Ft.

(c) The following services will be provided on an operating Field Cost basis:

1. Casing of overburden over 50 ft.
2. Reaming and setting casing for borehole reduction, borehole stabilization, and control of return water.
3. Drilling caved or broken ground.
4. All cementing operations, excluding setting time but including drilling of set cement.
5. Supplying water to the drill when water supply over 2,500 ft. lateral and/or 250 ft. vertical lift

from borehole collar under non-freezing conditions and all costs

~~_____ Ft. lateral and/or _____ Ft. vertical lift~~

under freezing conditions.

- 6. Recovering pipe and/or casing at Imperial's request.
- 7. Hole orientation tests.
- 8. Setting of wedges, at Imperial's request, for the purpose of directional drilling.

Where operating Field Costs are defined as:

Operating Field Costs

Labour (including Supervision) \$13.30 per man hour.

Tractor N/A per hour.

Water Truck (excluding driver) N/A per hour.

Equipment

Drills	Type	Operating Hourly Rate
<u> 1 </u>	<u> C/L Model 38 </u>	<u> \$8.00 </u>
<u> 1 </u>	<u> B.B. BBS-1 /12 BH </u>	<u> 8.00 </u>

Pumps	Type	Operating Hourly Rate
<u> </u>	<u> N/A </u>	<u> </u>

Other	Type	Operating Hourly Rate
<u> </u>	<u> N/A </u>	<u> </u>

While operating on a Field Cost basis, supplies consumed or damaged beyond use, including diamond articles, mud ingredients, cement, rods, core barrels, etc. shall be for Imperial's account at site replacement value plus 10 %. However, if due to Contractor negligence, or through poor drilling practices, equipment is damaged or lost and hole is not completed, then these costs shall be for Contractor's account.

(d) The following services would be provided on a non-operating Field Cost basis:

- 1. Setting time for cement..
- 2. Delays caused by Imperial.

Where non-operating Field Costs are defined as:

Non-Operating Field Costs

Labour (including supervision)	<u>\$13.30</u>	per man hour.
Drill, pumps and service vehicle	<u>-</u>	per drill hour.
Tractor - operating	<u>-</u>	per hour.
Tractor - non-operating	<u>-</u>	per hour.

(e) Travelling Time

Imperial agrees to pay for travelling time from camp site
_____ to drill site and return per shift on the
following basis:

Labour \$11.50 per day. man-hour, after the first ½ hour.
Vehicle _____ per day. per man

(f) Mobilization and Between Hole Moves

Labour \$13.30 per man-hour.

(g) Room and board for Contractor's personnel will be provided by
Company.

Contractor will provide meals and accommodation for up to
N/A of Imperial's representatives at a price of N/A
per day.

Room and board will be provided by Imperial to Contractor at
- per man day.

(h) Core boxes, including lids, will be provided by Company
_____. Contractor's rates for core boxes on site shall
be \$ -.

(i) Core splitter to be supplied by Company
Contractor to supply core splitter at - per -.

(j) Standby Rental

It is agreed that, at the completion of the present active
drilling program, Imperial may retain the Contractor's drilling
equipment at the drill area for a rental rate of -
per - per drilling unit. The standby rental charge will
cease to apply upon commencement of continuous drilling program,
or on the giving of a written notice to the Contractor by
Imperial that the drilling equipment is no longer required.

** Should drilling not recommence by June 10, 1977, the
Company will pay the Contractor \$100.00 per day from
June 10, 1977 until recommencement of drilling, or
demobilization of equipment.

(k) Special Agreements

- (1) The Contractor will mobilize and demobilize his drill and supplies to and from Dease Lake and will charge \$1,600.00 for same. This charge will be divided equally between the Company and Sumitomo Metal Mining Ltd.
- (2) The Contractor will mobilize and demobilize his crew to and from Rainbow Lake and will charge \$1,800.00 for same.
- (3) Delays caused by lack of transportation will be charged at Non-operating Field Cost.
- (4) Fuel, gas, oil and propane for drills, pumps, heaters and camp will be supplied by the Company at no cost to the Contractor.



Scale: 1:250,000 P.A.T.S.
 1 inch to 4 miles approx.

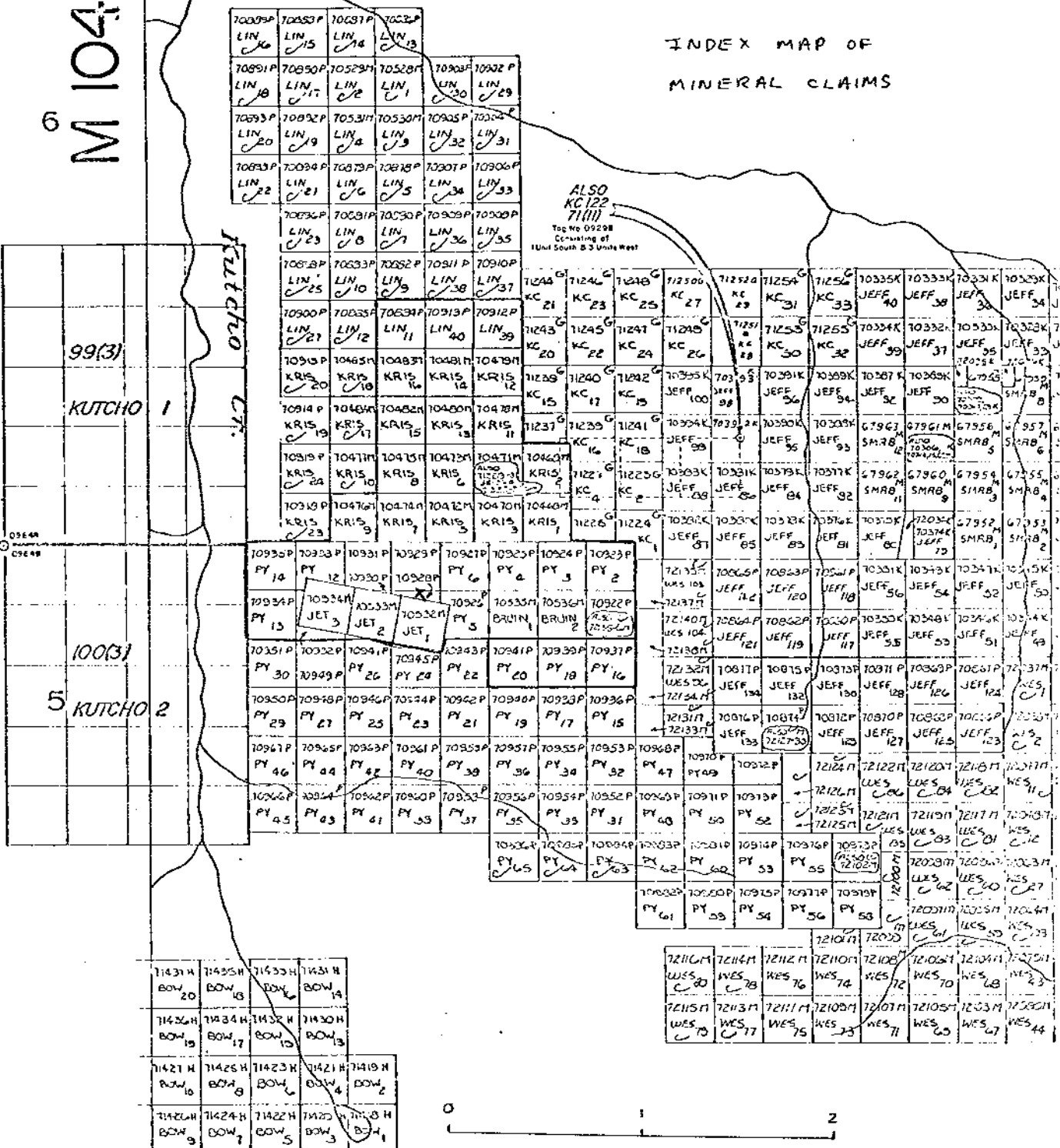
58° 15'

M 1041/1W

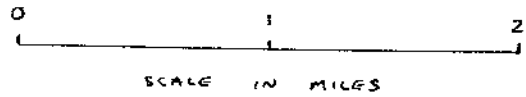
128° 30'

INDEX MAP OF MINERAL CLAIMS

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ALSO KC 122 71(11) Top No 09208 Consisting of 1 Unit South 2 3 Units West

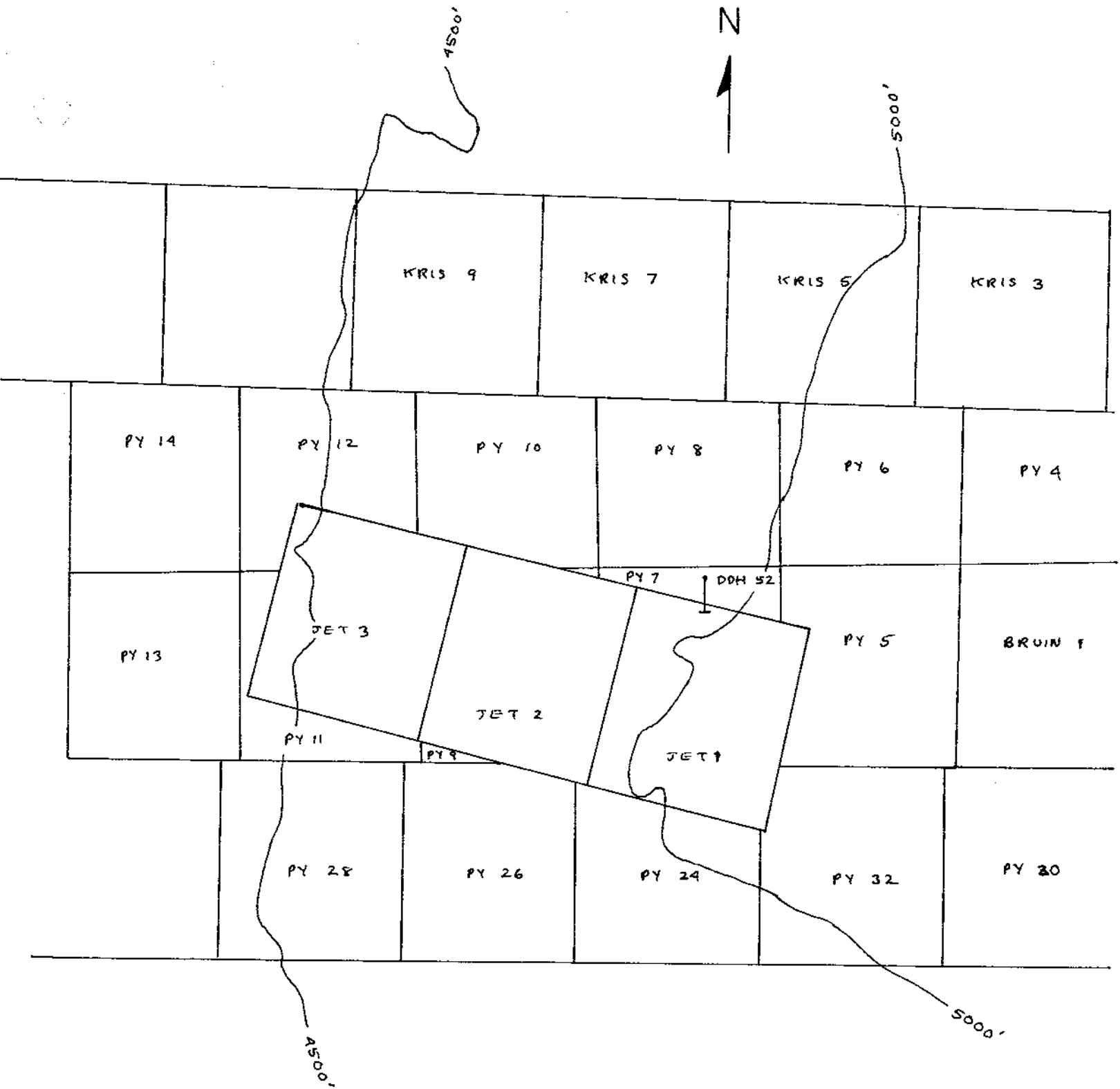


PLAN OF LIN, KRIS, JET, BRUIN, PY CLAIMS LAIRD M.D., B.C. 104 I 1W

#5986

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E MAP 1041/2E



Location Map DDH # 52

1" = 1000'

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