

GRAVIMETRIC SURVEY

KID CLAIMS, 5 MILES NORTHEAST OF KITCHENER, 49° 116°SE

REPORT BY: M. McCOMBE

SUPERVISED BY: R.G. GIFFORD, P.ENG.

RECORDED OWNER: H.E. FORS

WORK BY: MERCURY EXPLORATIONS LIMITED

FIELD WORK: JUNE 25-26, 1968

82 F 1

1642

1642

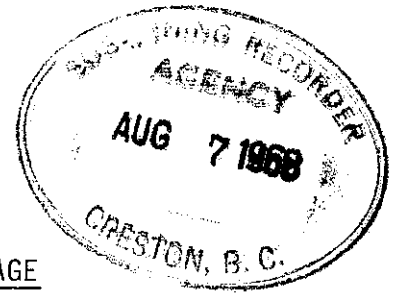


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(1A)

GRAVIMETRIC SURVEY

KID CLAIM GROUP

NELSON M.D., 49° 116° S.E.

JULY 8, 1968

SUMMARY AND CONCLUSIONS

A preliminary gravimetric survey was undertaken on the Kid Group of claims during June 25-26, 1968. Work was done by Roving Explorations Services Limited, Calgary Alberta and is detailed in the accompanying report by M. McCombe dated July 8, 1968.

The claims cover a lead-zinc prospect situated five miles northwest of Kitchener, B.C. on the west side of Kid Creek at 3,900 feet elevation, latitude 49° 12' N., longitude 116° 15' W., and N.T.S. 82F-1. The principal claims are densely timbered and lie on a steep northeast facing slope. The overburden in the area is generally a few feet in depth.

Sediments of the Middle Aldridge formation of Pre-Cambrian age underlie the prospect. Bedding is northeast in strike and 55 degrees northwest in dip. A major north-striking fault cuts across the west margin of the property bringing rocks of Aldridge age into contact with younger Creston formation.

Initial field application showed gravimetric methods to be feasible in the exploration for massive sulphide deposits in the Kid area. A systematic gravimetric survey is recommended for the Kid claims to assess their merit and to ascertain the nature and extent of an anomalous density contrast evident in the southeast sector of the preliminary survey.



R.G. GIFFORD, P.ENG.



EXPLORATION SERVICES LTD.

GEOLOGICAL
GRAVITY
SCINTILLOMETER
ELECTROMAGNETOMETER
MAGNETOMETER
INDUCED POLARIZATION
GEOCHEMICAL
AIRBORNE

520 - 5th Avenue S.W.
Calgary, Alberta
Telephone 264-0895

July 8, 1968

Gravimetric Procedures
Kid Claim Group
Yahk Area, B.C.
Mercury Explorations Limited

A Gravimetric Survey was carried out on a portion of the above claim group by Roving Exploration Services Ltd. of Calgary, Alberta. The survey crew spent two days on the project being June 25 and 26 inclusive. June 25th being spent in the field recording observations and June 26th was spent reducing and plotting field observations. A total of 47 stations were located and observed.

Field Procedures

A four-man survey team was employed consisting of the following personnel and equipment:

Personnel

Meter Operator - M. McCombe Roving Exploration
Surveyor - Glen Dupre " "
Assistant - Robert Chaplin Mercury Exploration
Assistant - Robert Gifford " "

Equipment

1 Worden Master Meter, Model III, Serial # 790 K = .0846(9)
1 Paulin Base Micro Baragraph, Model S17B5
1 K&E Survey Altimeters, Models 80 0270, Serials JJ 16362
HH 11685
1 Paulin Base Temperature Recorder, Model 8465, Serial # 201552.

Elevation and Horizontal Control

Two traverses were initiated from points on a previously cut grid. One traverse was carried out along an access road (see map). An elevation Bench mark was established with the aid of a topographic map.

Horizontal distance between stations was established by "chain". Stations were located 200 feet apart. Elevation control was maintained with a recording Baragraph and two Altimeters.

The recording Baragraph was set up and tested at an established Bench mark. It was found to be operating within acceptable limits. Two altimeters were employed to record the elevations at each gravity station located. These elevations were "tied" back to the "take off" Bench mark. Elevations were held to 1 foot. Elevation errors due to pressure changes were corrected by reference to the recording Baragraph.

Meter Procedures

A Gravity Base station was established at an Elevation Bench mark. Observations were taken at stations previously located by the survey crew. The gravity meter was checked prior to starting the survey and was found to be operating within acceptable limits. The meter used was a Worden Master, Serial No. 790 with a constant of $K = .0846(9)$.

Computing Procedures

Reduction of field data was conducted by accepted methods.

Diurnal and meter drift were established by repeat observations on the Base station (Base "A"). Drift was then mathematically proportioned between stations on each "run". An arbitrary prospect correction of 200.00 milligals was chosen as being suitable to base observed Gravity values on. Base station "A" was given this value and all other stations are relative to this value.

An elevation correction factor of .059 milligals per foot was derived from the rock density of the survey area.

A theoretical latitude correction datum line was established on a true east-west bearing thru station #6 west, Line #8 south. All latitude corrections for gravity stations were computed from this datum line. Theoretical tables of Gravity, Dominion Observatory, Ottawa was used as a reference for latitude corrections.

Subsequent smoothing of Bouguer values obtained, was performed with an equally weighted 3 point filter.

Plotting

Bouguer Contour Map Scale
Horizontal 1" = 400 Feet
Contour Interval .1 milligal

Elevation Profiles were Plotted as follows:

Horizontal 1" = 200 feet
Vertical 1" = 200 feet

Bouguer profiles were plotted as follows:

Horizontal 1" = 200 feet
Vertical 1" = 1.00 milligals

A Bouguer map, elevation and Bouguer profiles accompany this report.

Yours truly,

ROVING EXPLORATION SERVICES LTD.



Michael McCombe
Gravity Supervisor

mm/ddb
Encl.

AREA K-1 Group

ROVING EXPLORATION

PARTY _____

CLIENT University of Texas

GRAVITY COMPUTATION SHEET

PARTY CHIEF M. M. Combs

ELEVATION CORRECTION FACTOR .059

PROSPECT CORRECTION 2.00 MG

COMP. BY S. D. CHK. BY _____

STA. NO.	BOOK PAGE	GRID.	ELEV.	ELEV. CORR.	LAT. CORR.	OBS. GRAV.	TERR. CORR.	BOUG. GRAV.	NO.	RECHECK OBS. GRAV.	BOUG. GRAV.	DATE RUN	DATE RECHECK
<u>BL 24</u>			<u>4642.03</u>	<u>273.88</u>	<u>-.35</u>	<u>200.00</u>	<u>-</u>	<u>473.55</u>	<u>3.6</u>			<u>June 25</u>	<u>3 Point Filter</u>
						<u>200.00</u>	<u>-</u>						
						<u>200.00</u>	<u>-</u>						
<u>Line 12 N</u>			<u>4812.02</u>	<u>283.91</u>	<u>-.53</u>	<u>182.67</u>	<u>-</u>	<u>472.05</u>	<u>3.1</u>				<u>472.80</u>
<u>2</u>			<u>4851.13</u>	<u>286.22</u>	<u>-.55</u>	<u>186.87</u>	<u>-</u>	<u>472.59</u>	<u>2.5</u>				<u>472.81</u>
<u>4</u>			<u>4905.13</u>	<u>289.40</u>	<u>-.57</u>	<u>189.01</u>	<u>-</u>	<u>472.89</u>	<u>2.8</u>				<u>472.66</u>
<u>6</u>			<u>4939.13</u>	<u>291.91</u>	<u>-.61</u>	<u>181.71</u>	<u>-</u>	<u>472.51</u>	<u>2.5</u>	<u>291.50</u>	<u>472.60</u>	<u>2.6</u>	<u>472.68</u>
<u>8</u>			<u>4972.13</u>	<u>293.65</u>	<u>-.69</u>	<u>179.61</u>	<u>-</u>	<u>472.62</u>	<u>2.6</u>				<u>472.59</u>
<u>10</u>			<u>5010.13</u>	<u>295.60</u>	<u>-.68</u>	<u>172.98</u>	<u>-</u>	<u>472.46</u>	<u>2.4</u>	<u>295.59</u>	<u>472.34</u>	<u>2.3</u>	<u>472.38</u>
<u>12</u>			<u>5053.13</u>	<u>298.13</u>	<u>-.69</u>	<u>170.69</u>	<u>-</u>	<u>472.13</u>	<u>2.1</u>				<u>472.30</u>
<u>14</u>			<u>5098.13</u>	<u>300.79</u>	<u>-.70</u>	<u>172.29</u>	<u>-</u>	<u>472.33</u>	<u>2.4</u>	<u>300.93</u>	<u>472.32</u>	<u>2.3</u>	<u>472.19</u>
<u>16</u>			<u>5136.23</u>	<u>303.04</u>	<u>-.68</u>	<u>169.63</u>	<u>-</u>	<u>471.99</u>	<u>2.0</u>				<u>472.01</u>
<u>18</u>			<u>5170.61</u>	<u>305.02</u>	<u>-.67</u>	<u>167.33</u>	<u>-</u>	<u>471.73</u>	<u>1.7</u>				<u>471.89</u>
<u>20</u>			<u>5212.04</u>	<u>307.51</u>	<u>-.68</u>	<u>165.12</u>	<u>-</u>	<u>471.95</u>	<u>2.0</u>				<u>471.71</u>
<u>22</u>			<u>5208.72</u>	<u>307.31</u>	<u>-.72</u>	<u>164.87</u>	<u>-</u>	<u>471.46</u>	<u>1.5</u>	<u>307.26</u>	<u>471.41</u>	<u>1.4</u>	<u>471.86</u>
<u>24</u>			<u>5223.59</u>	<u>308.47</u>	<u>-.75</u>	<u>162.49</u>	<u>-</u>	<u>472.23</u>	<u>2.3</u>	<u>308.43</u>	<u>472.17</u>	<u>2.2</u>	<u>471.90</u>
<u>26</u>			<u>5253.59</u>	<u>309.96</u>	<u>-.79</u>	<u>162.88</u>	<u>-</u>	<u>472.05</u>	<u>2.1</u>				<u>472.07</u>
<u>28</u>			<u>5267.89</u>	<u>310.79</u>	<u>-.82</u>	<u>161.96</u>	<u>-</u>	<u>471.93</u>	<u>1.9</u>				<u>471.77</u>
<u>30</u>			<u>5274.29</u>	<u>311.18</u>	<u>-.86</u>	<u>161.25</u>	<u>-</u>	<u>471.57</u>	<u>1.6</u>	<u>311.24</u>	<u>471.63</u>	<u>1.6</u>	<u>471.60</u>
<u>R 20</u>			<u>5208.26</u>	<u>307.29</u>	<u>-.67</u>	<u>165.71</u>	<u>-</u>	<u>471.73</u>	<u>1.7</u>	<u>309.90</u>	<u>474.19</u>	<u>X</u>	
<u>R 10</u>			<u>5015.15</u>	<u>295.89</u>	<u>-.68</u>	<u>172.49</u>	<u>-</u>	<u>472.63</u>	<u>2.9</u>	<u>295.83</u>	<u>472.62</u>	<u>2.6</u>	<u>.3</u>
<u>R 16.14</u>			<u>4509.26</u>	<u>283.75</u>	<u>-.53</u>	<u>189.20</u>	<u>-</u>	<u>472.92</u>	<u>2.9</u>	<u>283.79</u>	<u>422.91</u>	<u>2.9</u>	<u>.2</u>
<u>R 11</u>			<u>4643.80</u>	<u>273.98</u>	<u>-.35</u>	<u>200.00</u>	<u>-</u>	<u>473.63</u>	<u>3.6</u>				
<u>Line 4 N</u>													
<u>BL 9 N</u>			<u>4688.80</u>	<u>276.64</u>	<u>-.32</u>	<u>197.30</u>	<u>-</u>	<u>473.62</u>	<u>3.6</u>				<u>473.48</u>
<u>2 W</u>			<u>4734.80</u>	<u>279.36</u>	<u>-.29</u>	<u>194.61</u>	<u>-</u>	<u>473.67</u>	<u>3.7</u>	<u>279.41</u>	<u>473.83</u>	<u>3.7</u>	<u>473.16</u>
<u>4 W</u>			<u>4733.08</u>	<u>279.54</u>	<u>-.25</u>	<u>193.81</u>	<u>-</u>	<u>473.16</u>	<u>3.1</u>				<u>473.30</u>
<u>6 W</u>			<u>4746.50</u>	<u>280.04</u>	<u>-.22</u>	<u>193.31</u>	<u>-</u>	<u>473.13</u>	<u>3.1</u>				<u>473.12</u>
<u>R</u>													
<u>BL 11</u>			<u>4673.69</u>	<u>275.75</u>	<u>-.32</u>								
<u>3 E</u>			<u>4581.69</u>	<u>270.32</u>	<u>-.34</u>	<u>203.09</u>	<u>-</u>	<u>473.07</u>	<u>3.1</u>				<u>473.05</u>
<u>4 E</u>			<u>4594.96</u>	<u>265.44</u>	<u>-.38</u>	<u>202.93</u>	<u>-</u>	<u>473.69</u>	<u>3.0</u>				<u>472.82</u>
<u>6 E</u>			<u>4399.26</u>	<u>259.56</u>	<u>-.41</u>	<u>213.20</u>	<u>-</u>	<u>472.35</u>	<u>2.4</u>				<u>472.50</u>
<u>8 E</u>			<u>4413.76</u>	<u>256.67</u>	<u>-.44</u>	<u>215.96</u>	<u>-</u>	<u>472.19</u>	<u>2.1</u>				<u>472.13</u>
<u>BASE</u>			<u>4638.86</u>	<u>273.66</u>	<u>-.35</u>	<u>200.00</u>	<u>-</u>	<u>473.51</u>	<u>3.0</u>				
<u>Line 8 South</u>													
<u>10 E</u>			<u>4391.65</u>	<u>259.11</u>	<u>0</u>	<u>214.56</u>	<u>-</u>	<u>473.67</u>	<u>3.7</u>				<u>474.07</u>
<u>8 E</u>			<u>4476.55</u>	<u>264.12</u>	<u>-.03</u>	<u>210.33</u>	<u>-</u>	<u>474.43</u>	<u>4.5</u>	<u>264.06</u>	<u>474.92</u>	<u>4.4</u>	<u>474.49</u>
<u>6 E</u>			<u>4478.3</u>	<u>265.23</u>	<u>-.06</u>	<u>208.71</u>	<u>-</u>	<u>474.63</u>	<u>3.7</u>	<u>265.11</u>	<u>474.50</u>	<u>4.6</u>	<u>474.68</u>
<u>4 E</u>			<u>4500.19</u>	<u>265.51</u>	<u>-.10</u>	<u>209.65</u>	<u>-</u>	<u>475.06</u>	<u>5.1</u>	<u>265.57</u>	<u>475.12</u>	<u>5.1</u>	<u>474.73</u>
<u>2 E</u>			<u>4522.20</u>	<u>266.87</u>	<u>-.12</u>	<u>207.71</u>	<u>-</u>	<u>474.46</u>	<u>4.5</u>	<u>266.99</u>	<u>474.58</u>	<u>4.6</u>	<u>474.64</u>
<u>BL</u>			<u>4534.46</u>	<u>268.73</u>	<u>-.16</u>	<u>205.30</u>	<u>-</u>	<u>473.87</u>	<u>3.9</u>	<u>268.85</u>	<u>473.99</u>	<u>4.0</u>	<u>474.15</u>
<u>2 W</u>			<u>4565.16</u>	<u>269.33</u>	<u>-.18</u>	<u>204.94</u>	<u>-</u>	<u>474.14</u>	<u>4.1</u>	<u>269.50</u>	<u>474.26</u>	<u>4.3</u>	<u>474.15</u>
<u>4 W</u>			<u>4554.76</u>	<u>268.73</u>	<u>-.22</u>	<u>205.52</u>	<u>-</u>	<u>474.03</u>	<u>4.0</u>	<u>268.91</u>	<u>474.01</u>	<u>4.2</u>	<u>474.05</u>
<u>6 W</u>			<u>4523.16</u>	<u>266.90</u>	<u>-.21</u>	<u>206.91</u>	<u>-</u>	<u>473.59</u>	<u>3.6</u>	<u>267.02</u>	<u>473.69</u>	<u>3.7</u>	<u>473.95</u>
<u>8 E</u>			<u>4502.50</u>	<u>265.65</u>	<u>-.06</u>	<u>209.46</u>	<u>-</u>	<u>475.05</u>	<u>5.1</u>	<u>265.71</u>	<u>475.11</u>	<u>5.1</u>	
<u>BASE</u>			<u>4640.96</u>	<u>273.82</u>	<u>-.35</u>	<u>200.00</u>	<u>-</u>	<u>473.47</u>	<u>3.5</u>				

Meter No. 190Constant .0846

ROVING EXPLORATION

FIELD GRAVITY METER DATA

Date June 25Operator A. H. ClarkArea Kid Chino

Sta. No.	Time	Reading	Drift	Observed Gravity	Weather and Remarks
BASE A	10:15	1423.7	+		
	10:28	1423.0			
	10:37	1423.0			
	10:45	1423.0		200.00	
16N BL	10:52	1300.8	.1	189.67	
A2	11:05	1267.5	.3	186.87	
4	11:08	1233.7	.3	189.01	
6	11:12	1206.2	.4	181.71	
8	11:15	1181.6	.4	179.61	
10	11:20	1156.3	.5	177.98	
12	11:23	1123.3	.5	174.69	
14	11:26	1099.8	.6	172.29	
16	11:30	1063.4	.6	169.63	
18	11:34	1036.1	.7	167.33	
20	11:36	1010.0	.7	165.12	
22	11:43	1007.0	.8	164.87	
24	11:46	1002.4	.9	164.49	
26	11:50	983.3	.9	162.88	
28	11:53	972.3	1.0	161.96	
30	11:57	963.9	1.0	161.25	
RA20	12:07	1009.5	1.1	165.11 ^{.01}	
RA10	12:15	1155.4	1.3	177.97 ^{.01}	
16N BL	12:23	1299.9	1.4	189.70 ^{.03}	
BR	12:30	1421.5	$\frac{1.5}{105} = .014$	200.00	

Meter No. 790

Constant .0896

ROVING EXPLORATION

FIELD GRAVITY METER DATA

Date June 25

Operator M. P. Combs

Area Kid Claims

Sta. No.	Time	Reading	Drift	Observed Gravity	Weather and Remarks
BASE "R"	130	1920.9	-		
	1:37	1920.9	-	200.00	
4N 0	1:45	1388.8	.2	197.30	
2 Sw	1:51	1356.9	.3	194.61	
4	1:55	1347.3	.4	193.81	
6	1:58	1341.9	.4	193.31	
2 E	2:20	1456.4	1.0	203.09	
4	2:28	1514.1	1.1	202.98	
6	2:34	1575.7	1.2	213.20	
8	2:38	1608.3	1.3	215.96	
"A"	2:45	1919.5	$\frac{1.9}{.68} = .28$	200.00	

Meter No. 790

Constant .846

ROVING EXPLORATION
FIELD GRAVITY METER DATA

Date June 25

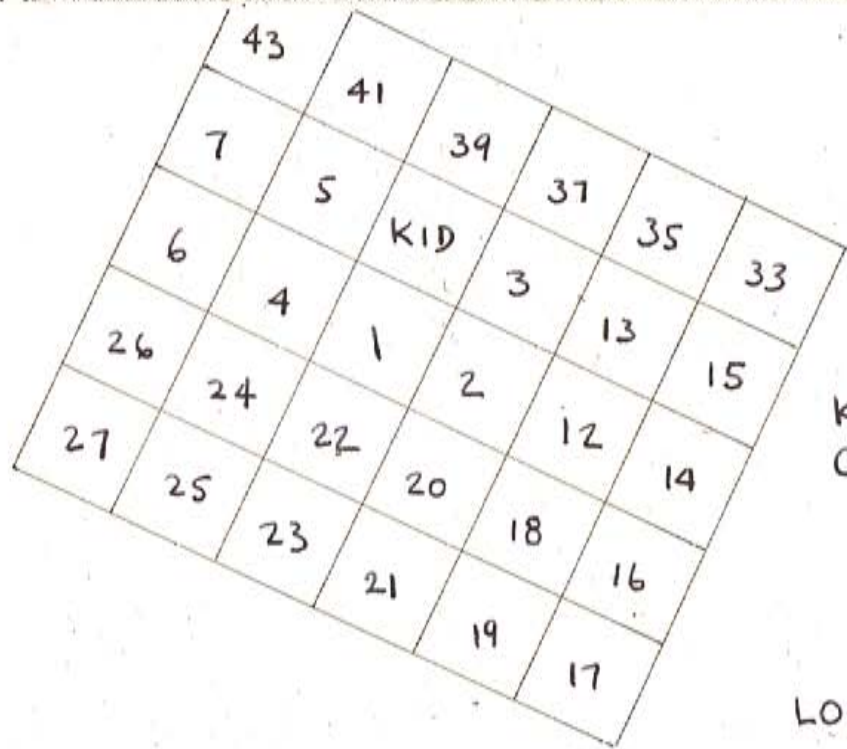
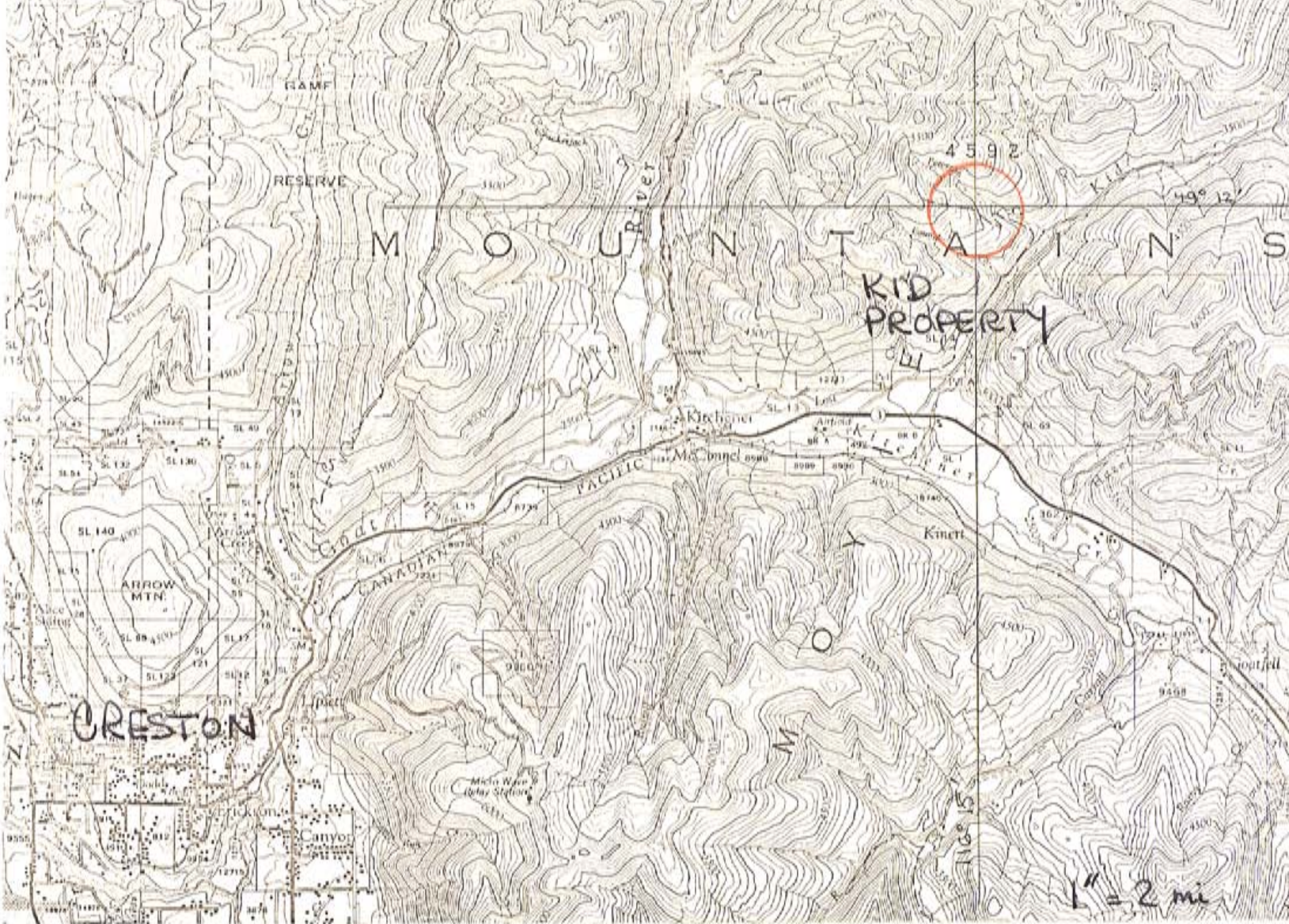
Operator M McCombe

Area Kid Claims

Sta. No.	Time	Reading	Drift	Observed Gravity	Weather and Remarks
<u>A</u>	<u>2:45</u>	<u>1419.5</u>	<u>-</u>	<u>200.00</u>	
<u>8510E</u>	<u>3:05</u>	<u>1591.4</u>	<u>.2</u>	<u>214.56</u>	
<u>8E</u>	<u>3:10</u>	<u>1541.9</u>	<u>.4</u>	<u>210.39</u>	
<u>6E</u>	<u>3:14</u>	<u>1531.5</u>	<u>.4</u>	<u>209.51</u>	
<u>4E</u>	<u>3:17</u>	<u>1533.2</u>	<u>.4</u>	<u>209.65</u>	
<u>2E</u>	<u>3:20</u>	<u>1510.1</u>	<u>.5</u>	<u>207.71</u>	
<u>O</u>	<u>3:26</u>	<u>1483.6</u>	<u>.6</u>	<u>205.30</u>	
<u>2W</u>	<u>3:30</u>	<u>1477.3</u>	<u>.6</u>	<u>209.99</u>	
<u>4W</u>	<u>3:34</u>	<u>1484.1</u>	<u>.7</u>	<u>205.52</u>	
<u>6W</u>	<u>3:38</u>	<u>1500.5</u>	<u>.7</u>	<u>206.91</u>	
<u>6E</u>	<u>3:49</u>	<u>1530.4</u>	<u>.9</u>	<u>209.46</u>	
<u>"A"</u>	<u>3:58</u>	<u>1418.5</u>	<u>$\frac{1.0}{73}$</u>	<u>.14</u>	

STA	TIME	Kid Group	June 24/63	TEMP	ELEV.	ELEV.
		J716362	HH11685			
BASE R	132	4641	4641	76°		
BLN	143	4689	4689	76°	4688.80	468880
2W	148	4735	4736	77°	4734.80	473580
4W	154	4750	4750	78°	4738.09	4738.09
6W	157	4759	4759	78°	4746.50	4746.50
BLN	209	4690	4689	78°	4673.69	4672.69
2E	219	4598	4598	76°	4581.69	4581.69
4E	221	4512	4512	76°	4498.96	4498.96
6E	228	4421	4421	76°	4399.26	4399.26
8E	231	4370	4370	76°	4349.35	4349.35
BASE	245	4660	4660	79°	4632.26	4632.26
10E	302	4421	4421	82°	4391.65	4391.65
8E	308	4566	4565	80°	4476.65	4476.65
6E	312	4528	4526	80°	4495.39	4493.39
4E	316	4529	4530	80°	4500.19	4501.19
2E	320	4552	4554	78°	4523.20	4525.20
BLI	324	4589	4591	78°	4554.76	4556.76
2W	329	4600	4602	77°	4565.76	4567.76
4W	332	4589	4592	78°	4554.76	4557.76
6W	335	4558	4560	80°	4523.76	4526.76
6E	340	4540	4541	79°	4502.50	4503.50
BASE	350	4678	4679	84°	4640.96	4640.96

		Kid Group		June 29 1969			
A/H meters Set 4500 old Camp.							
STA	TIME	D16322	HMM635	TEMP	ELEV	ELEV.	
BASE A	1091	4692	4692	73°			
Road A	1057	4818	4818	80°	4812.02	4812.02	
2	11:03	4862	4862	80°	4851.13	4851.13	
4	11:06	4916	4916	80°	4905.13	4905.13	
6	11:10	4956	4949	80°	4939.13	4938.13	
8	11:13	4988	4988	80°	4977.13	4977.13	
10	11:15	5021	5020	75°	5010.13	5009.13	
12	11:18	5069	5069	75°	5053.13	5053.13	
14	11:22	5109	5108	75°	5098.13	5097.13	
16	11:25	5151	5150	74°	5136.33	5135.33	
18	11:28	5188	5188	74°	5170.61	5170.61	
20	11:31	5224	5224	76°	5212.09	5212.09	
22	11:42	5231	5230	76°	5208.72	5207.72	
24	11:45	5240	5239	76°	5228.59	5227.59	
26	11:47	5265	5265	75°	5253.59	5253.59	
28	11:49	5279	5279	75°	5267.59	5267.59	
30	11:51	5290	5291	74°	5279.29	5275.29	
26	12:03	5268	5266	76°	5251.15	5249.15	
20	12:07	5230	5230	77°	5208.26	5208.26	
16	12:10	5160	5159	76°	5138.26	5137.26	
10	12:15	5032	5031	74°	5015.15	5014.15	
6	12:19	4966	4965	76°	4949.26	4943.26	
16 NW	12:23	4831	4830	76°	4809.26	4809.26	
BASE	12:30	4668	4668	81°	4643.80	4643.80	



LOCATION MAP
1" = 1/2 mi

R.G. Gifford

ACCOMPANIES GRAVIMETRIC REPORT JULY 8, 1968
SUPERVISED BY R. GIFFORD, P. ENG.
KID CLAIMS, KID CREEK, NELSON M.D.



EXPLORATION SERVICES LTD.

GEOLOGICAL
GRAVITY
SCINTILLOMETER
ELECTROMAGNETOMETER
MAGNETOMETER
INDUCED POLARIZATION
GEOCHEMICAL
AIRBORNE

520 - 5th Avenue S.W.
Calgary, Alberta
Telephone 264-0895

July 10, 1968

Mr. Robert Chaplin
Mercury Explorations Ltd.
1281 West Georgia, Ste. 700
Vancouver 5, B.C.

I N V O I C E

Gravity survey and report

Field crew 4 days @ \$125/day	\$500.00
Truck mileage 492 mi. @ 15¢/mi.	73.80
Barograph & altimeter rental	55.00
Incidental meals	10.11
	<hr/>
	638.91
Administrative overhead	
10%	63.80
	<hr/>
	\$ 702.71
	<hr/>

Account rendered
ROVING EXPLORATION SERVICES LTD.


J. T. Cook P.Geol.

STATEMENT OF QUALIFICATIONS

The Gravity Survey conducted by Roving Exploration Services Ltd. was done under my supervision. I have had more than 15 years experience in mining exploration. I have had $3\frac{1}{2}$ years of Gravity experience and am fully qualified to operate a gravity meter and also to reduce and interpret gravity data.

Michael McCombe

Michael McCombe
Roving Exploration Services Ltd.

CERTIFICATE

I, ROBERT G. GIFFORD OF VANCOUVER B.C. DO HERBY CERTIFY THAT:

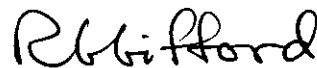
1. I AM A GRADUATE OF THE UNIVERSITY OF BRITISH COLUMBIA WHERE I OBTAINED MY BACHELOR OF APPLIED SCIENCE, GEOLOGY IN 1962.

2. I AM A GEOLOGICAL ENGINEER IN THE EMPLOY OF MERCURY EXPLORATIONS LIMITED, VANCOUVER, B.C., AND A REGISTERED MEMBER IN GOOD STANDING OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF BRITISH COLUMBIA.

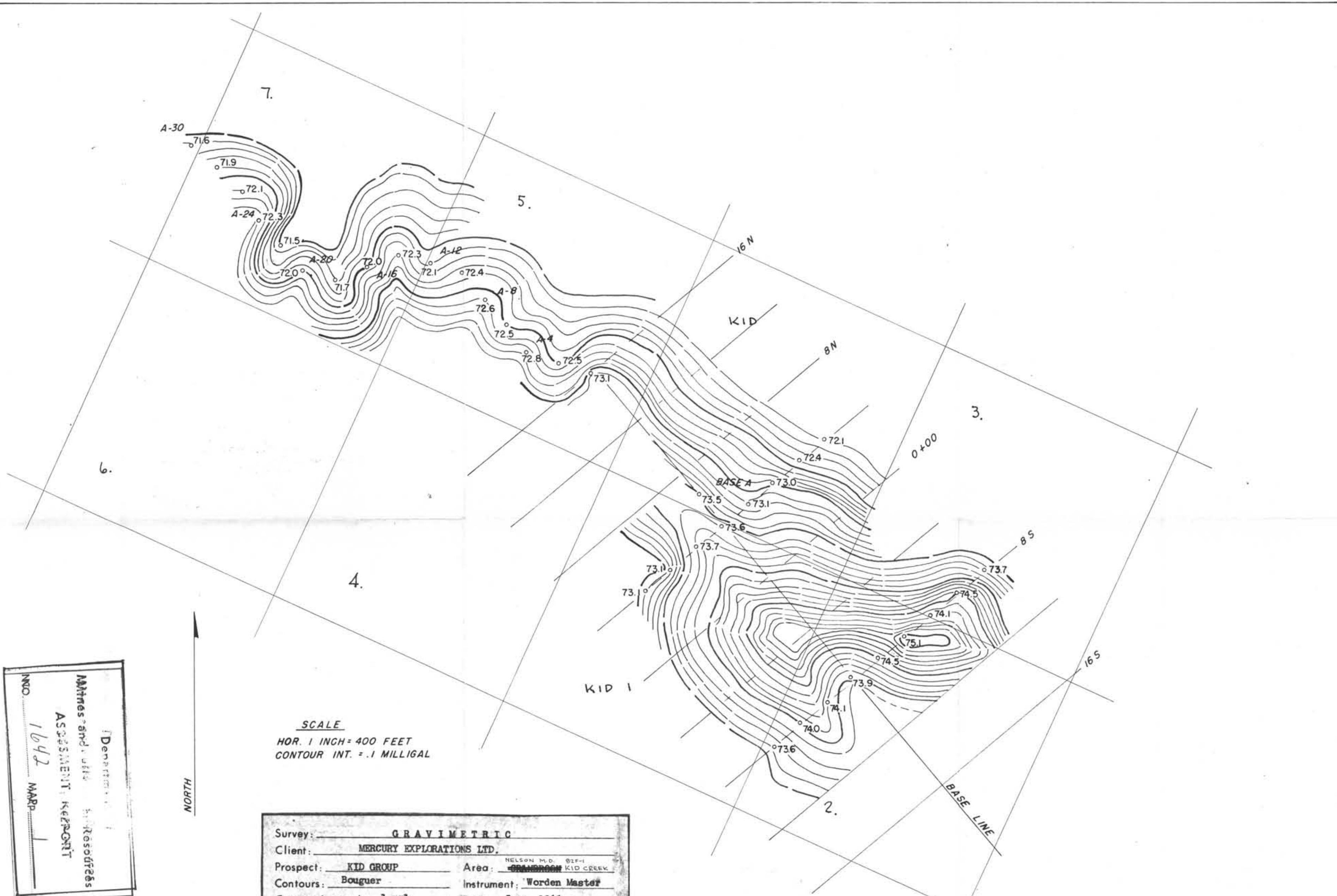
3. I HAVE BEEN ENGAGED CONTINUOUSLY IN MINING AND EXPLORATION GEOLOGY IN THE EMPLOY OF COMINCO LIMITED FROM MAY 1958 to JULY 1967 AND IN THE EMPLOY OF P.H. SEVENSMA CONSULTANTS LIMITED, VANCOUVER B.C. FROM JULY 1967 TO APRIL 1968.

4. I HAVE PERSONALLY SUPERVISED THE EXPLORATION PROGRESS ON THE CLAIMS WHICH ARE THE SUBJECT OF THIS REPORT.

RESPECTFULLY SUBMITTED,



R.G. GIFFORD, P.ENG.



SCALE
 HOR. 1 INCH = 400 FEET
 CONTOUR INT. = .1 MILLIGAL

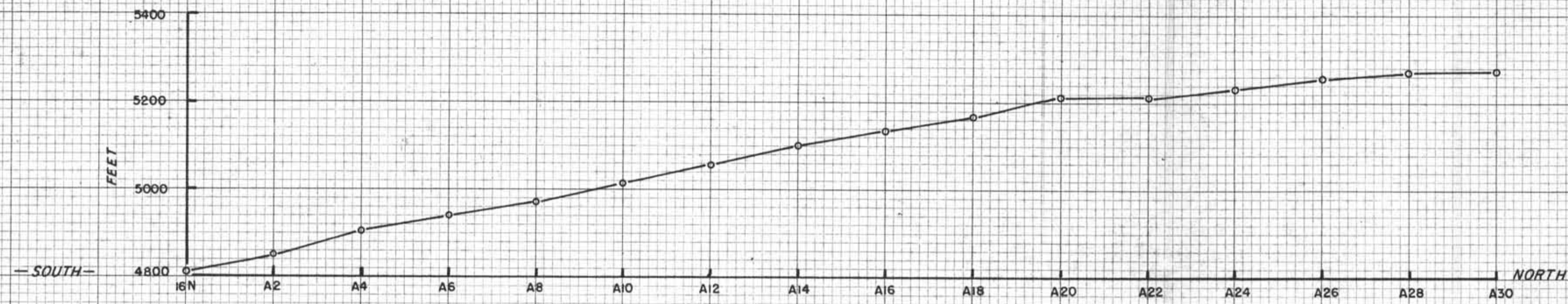
Department of
 Mines and Technical Surveys
 ASSESSMENT REPORT
 1642
 MARP

Survey:	GRAVIMETRIC	
Client:	MERCURY EXPLORATIONS LTD.	
Prospect:	KID GROUP	Area: GRANDPOND KID CREEK
Contours:	Bouguer	Instrument: Worden Master
Contour Interval:	1 mgl.	Date: June, 1968
Map Scale:	1" to 400'	Approved:
Party Chief:	M. McCombe	
Elevations by altimeter		
		ROVING EXPLORATION SERVICES LTD.

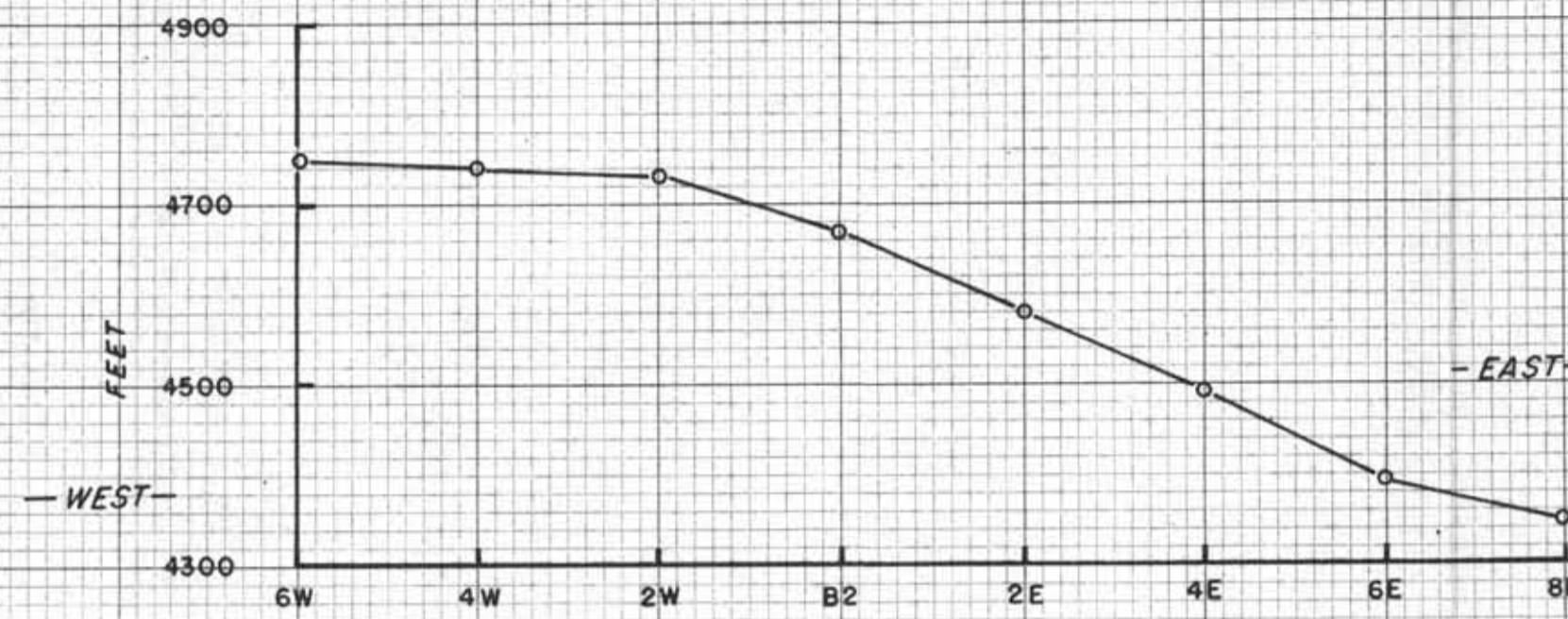
TO ACCOMPANY GRAVIMETRIC REPORT JULY 8, 1968
 SUPERVISED BY R. GIFFORD, P. ENG.
 KID CLAIMS, KID CREEK, NELSON M.D.

R. Gifford

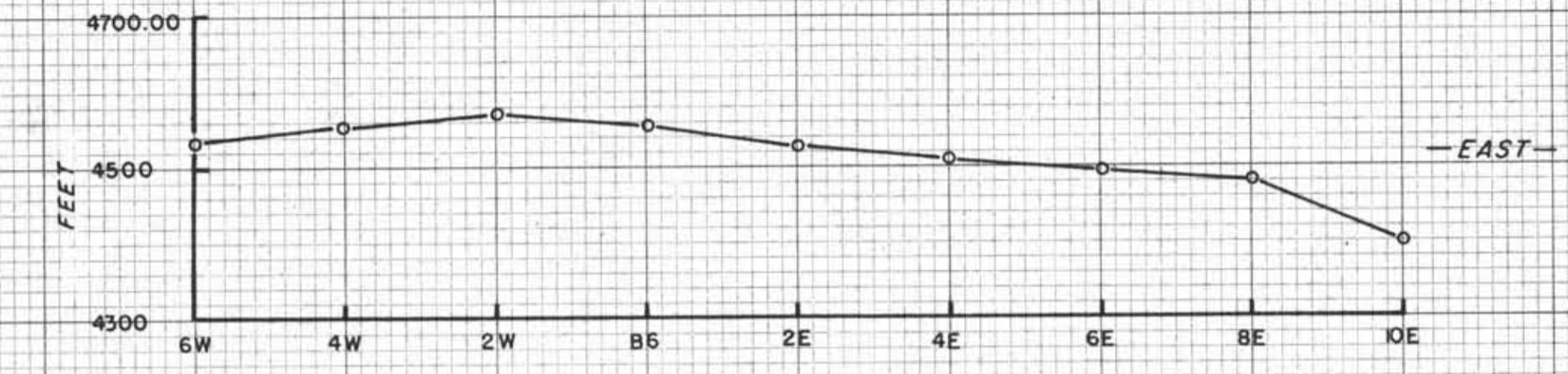
1642



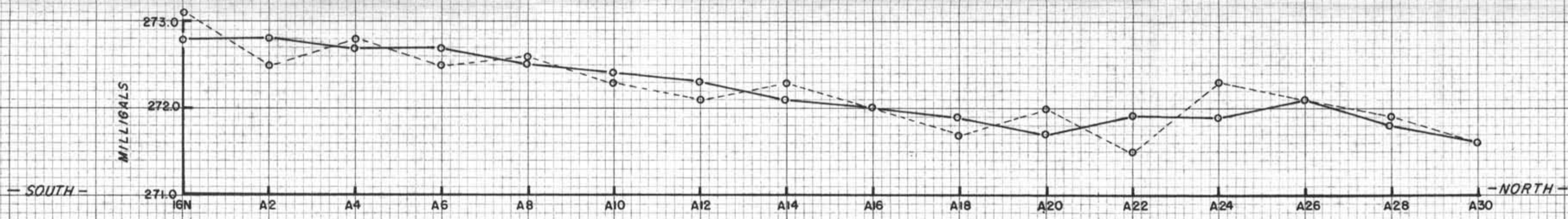
ROAD LINE



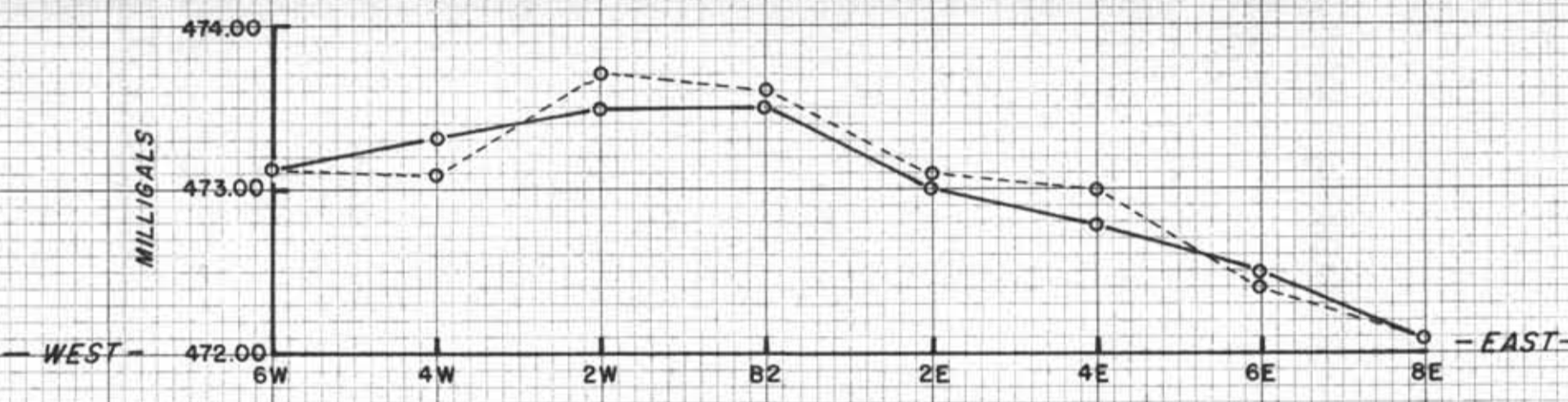
LINE 4 N



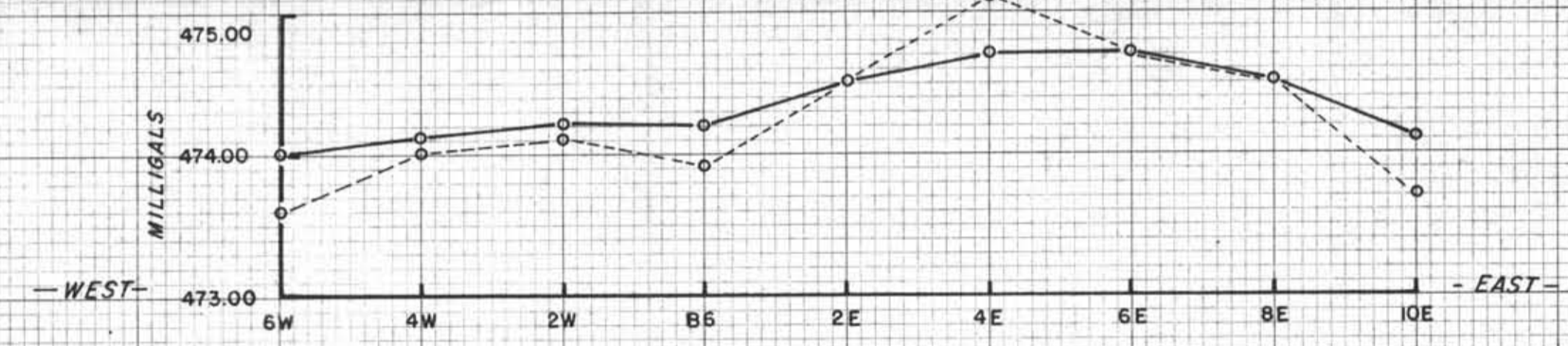
LINE 8 S



ROAD LINE



LINE 4 N



LINE 8 S

LEGEND
 —•— BOUGUER
 - - - 3 POINT FILTER

Survey:	GRAVIMETRIC
Client:	MINOR EXPLORATIONS LTD
Prospect:	KID GROUP Area ORANGEBOOM
Contours:	Profile Instrument: Warden Master
Contour Interval:	Bouguer Date: June 1968
Map Scale:	Vert. 1" to 200' Approved:
Party Chief:	Hor. 1" to 200' M. Macombe

Bouguer values 3 point filter



To accompany GRAVIMETRIC REPORT: 1642/8/1968
 Prepared by R. Gifford, P. King
 V.P. CLARK, K. CARAN, NELSON M.D.

R. Gifford

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 1642 MAP

1642