4525

MOUNT MAHON PROJECT

YAHK, B. C.

CHEVRON CANADA RESOURCES LIMITED

GRAVITY SURVEY 1983

82G-4

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SUMMARY

A gravity survey was completed over Chevron's Mount Mahon project, Yahk, B. C. during the fall of 1983. Station interval was 100 metres on lines 200 metres apart. The purpose was to investigate the potential for extensive massive sulphides. Data analysis indicates that most variations in the gravitational field can be explained by lithological variations or topography. One significant potential target remains in the north east corner of the grid.

Respectfully submitted,

Gregory Paquin

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MOUNT MAHON PROJECT, YAHK, B. C.
GRAVITY SURVEY

At the request of Chevron Standard Limited, Minerals Division, Ager, Berretta & Ellis Inc. completed a gravity survey on the Mount Mahon Grid near Yahk, B.C.(Figure 1). The purpose of the work was to assist in the search for massive sulphides.

SURVEY PROCEDURE

The ABE crew stayed in a hotel in Yahk and used a truck for transportation to and from the job site. The gravity base for the survey was established at line 0 stn. 0, next to the drill hole(Y-6).

Gravity observations were made using a LaCoste & Romberg model G gravity meter(#618) with a reading accuracy of +0.01 milligals. Instrument and diurnal drift were accounted for by tying to the base station and to temporary base stations on the grid and drifting the data accordingly.

Elevations were determined by the use of an electronic level developed by ABE. Standard survey closure methods were used and station elevations were calculated to within a relative accuracy of ±0.03 meters.

Field results were calculated and plotted in the field. Final data preparation was completed in the Vancouver office.

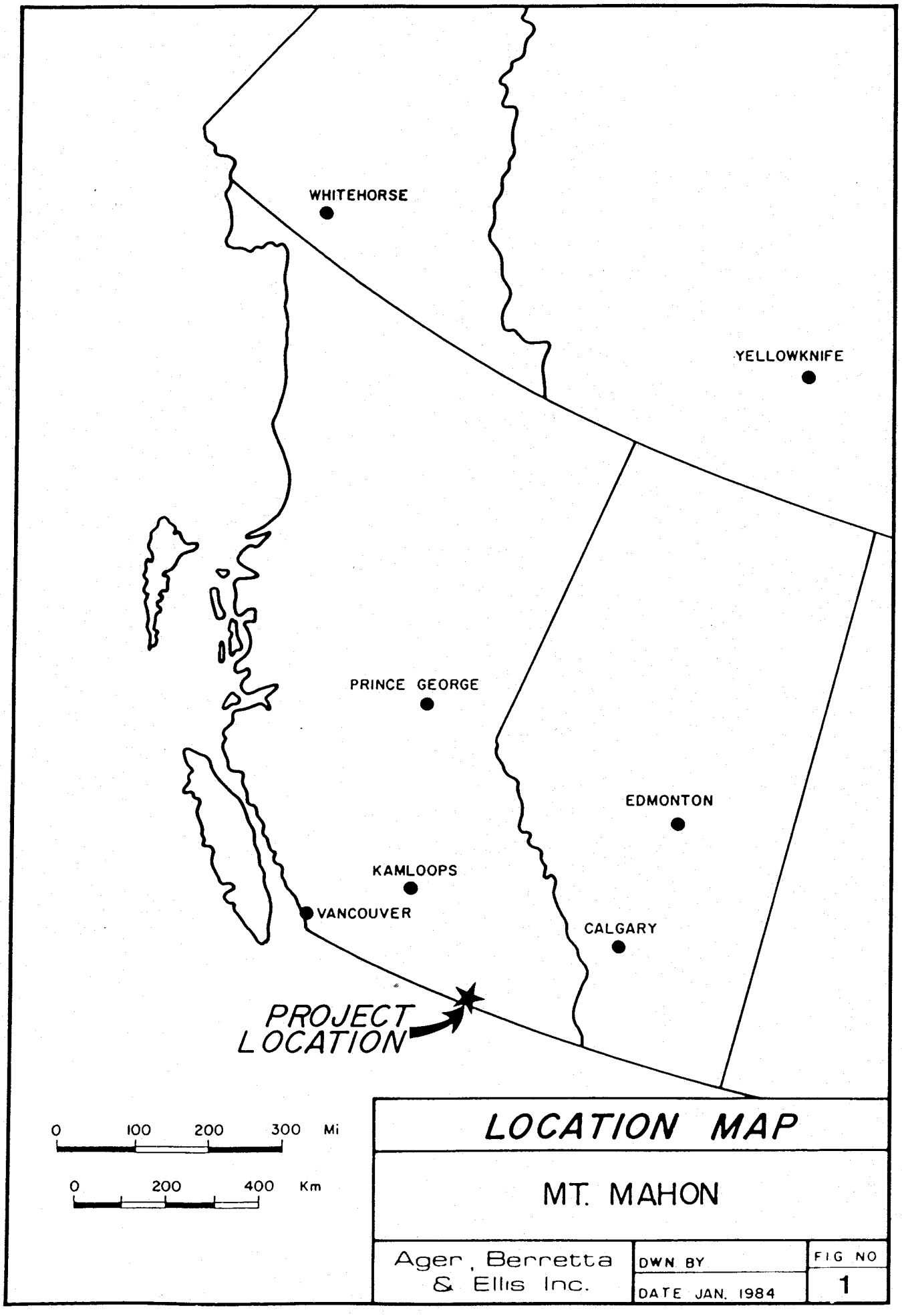
GEOLOGY

The survey area lies on the eastern flank of a gently folded anticline, with Mount Mahon very near the axis. The formation is plunging to the north. The area contains sandstone, siltstone, argillites and some conglomerates of the Aldridge Formation. A more complete description of the geology can be found in "Geology of Mount Mahon Area (Yahk Claim Group)" as completed by Larry Decker of Chevron Canada Resources Limited.

DATA REDUCTION

A brief outline of gravity fundamentals is included as Appendix I.

The survey area crossed several statigraphic layers of varying densities. From correlation of gravity values Elevation Density Factors for different rock units were determined. For the higher elevation area of Mount Mahon



LOCATION MAP

MT. MAHON

Ager, Berretta & Ellis Inc.	DWN BY	FIG NO
	DATE JAN. 1984	1

(above 1700 meters) a density of 2.10 grams per cc was derived. The remaining portion of the grid was evaluated at 2.67 grams per cc yielding an overall average elevation density factor of 2.45 grams per cc.

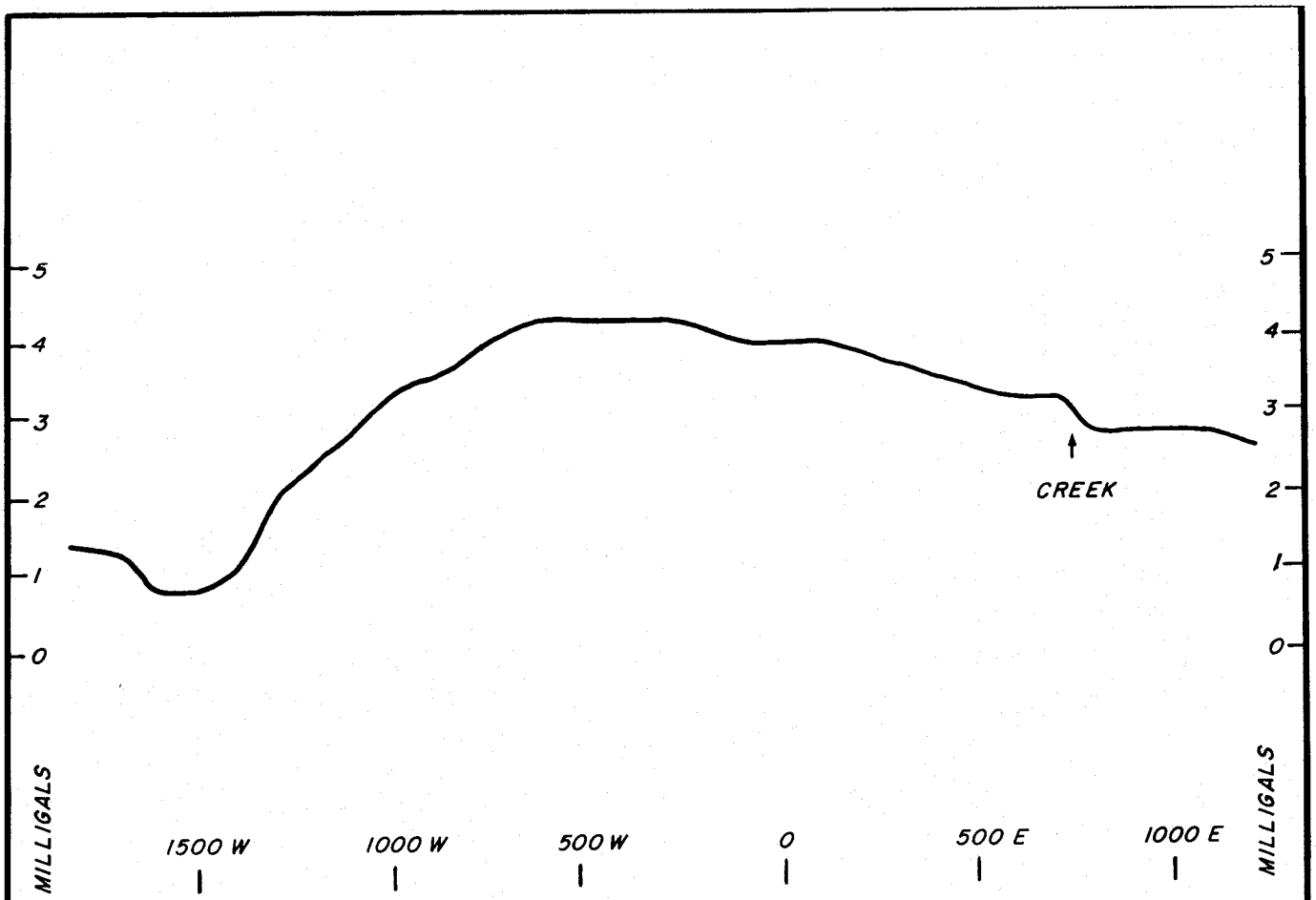
A density of 2.67 grams per cc was used for terrain correction calculations. The resulting Complete Bouguer Gravity Map is given as Figure 7.

INTEPRETATION

Several features can be observed from the Complete Bouguer Gravity Map.

A gravity high trends across the grid 200 to 400 meters west of the base line. This feature shifts to the west if the elevation density factor is lowered slightly and becomes only a gradient at an elevation correction factor of 2.1 grams per cc (see Figures 2, 3, & 4). Using geological information supplied by Chevron, line 0 has been modelled. As can be seen on Figure 6, variations in gravitational fields can be explained by changes in local geology.

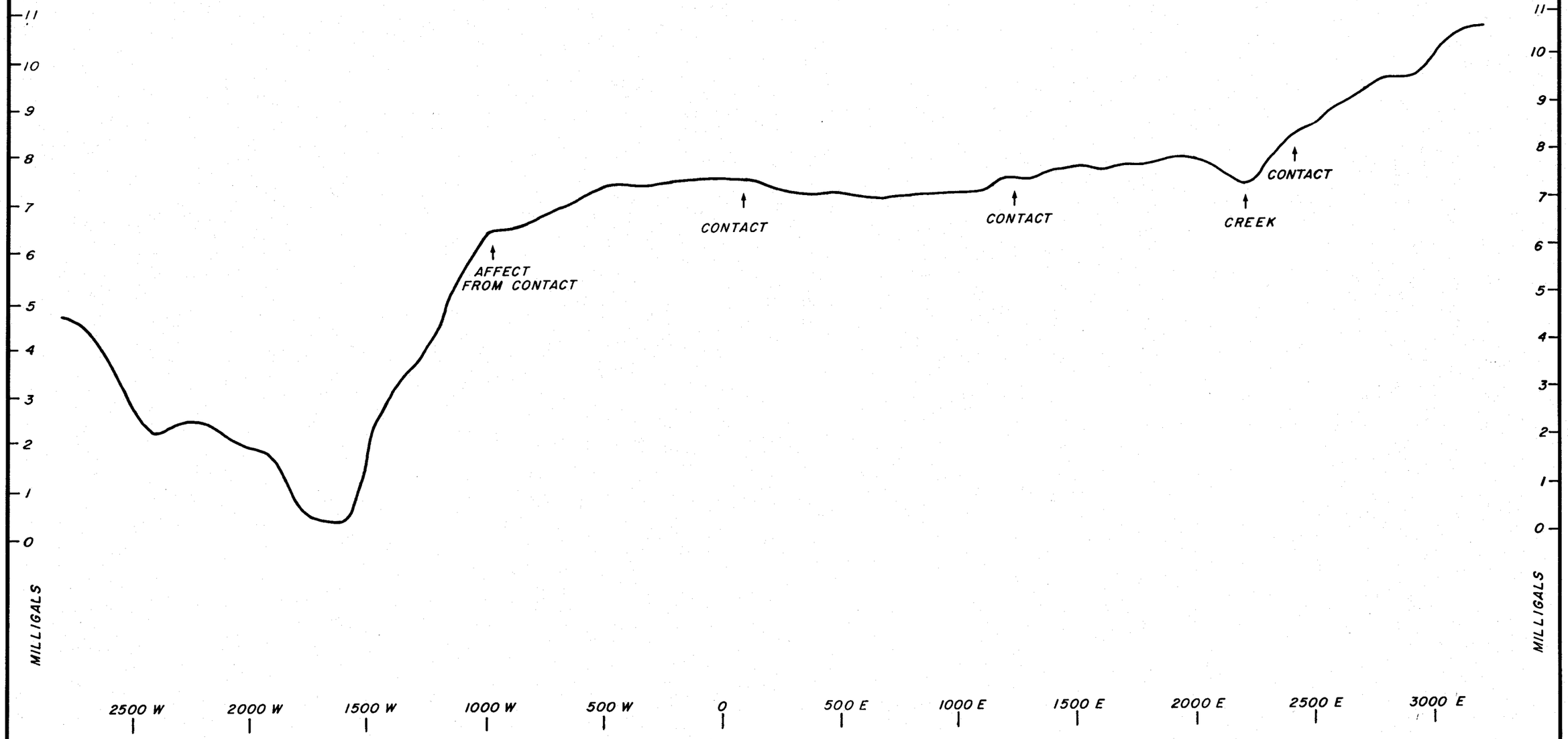
In the eastern portion of the grid a gravity low, indicative of stream sediments, can be observed at line 10 north, 200 east trending south along the existing stream. This low separates, and accentuates a gravity high on lines 8 and 10 north. Observation of gravity profiles at various different density factors indicates that this feature is not topographically related. The feature is not closed off to the north east. If this area is geologically favourable, further investigations are warranted.



GRAVITY PROFILE LINE 8 S

CHEVRON CANADA RESOURCES LTD.
YAHK, B.C.

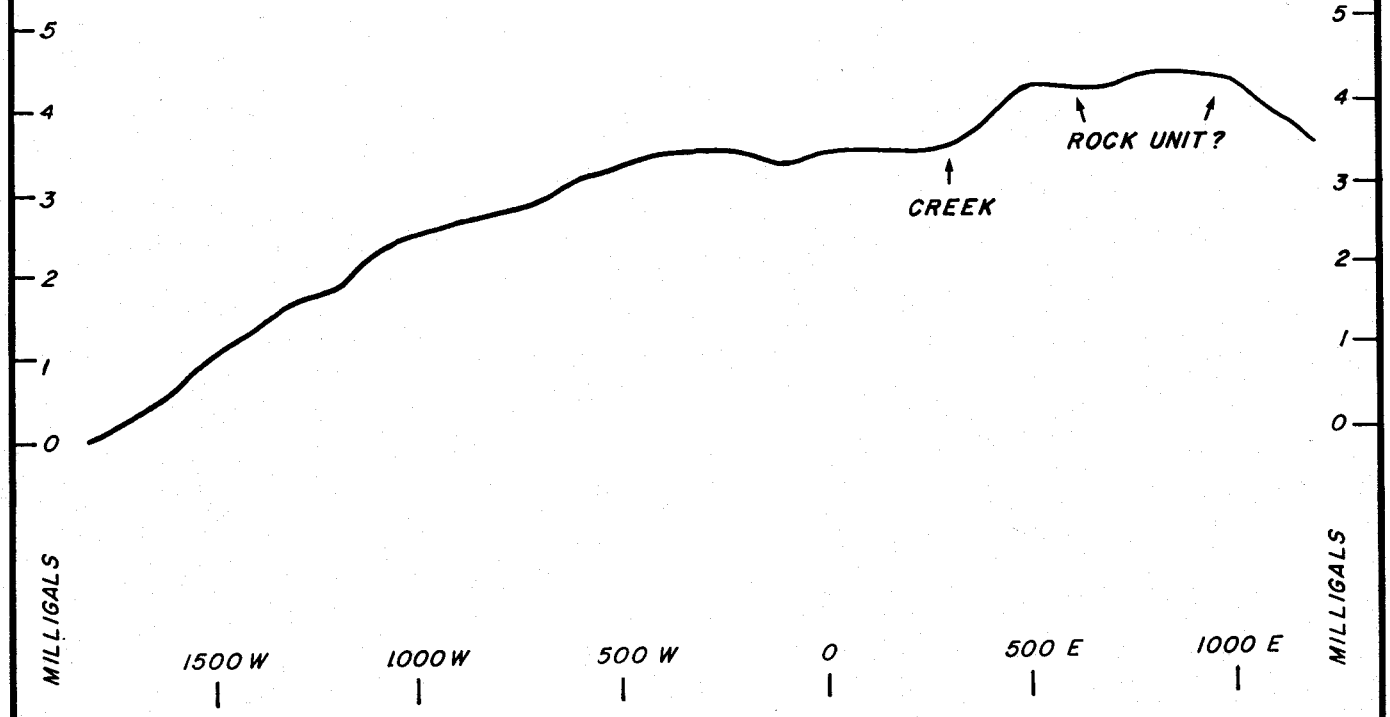
Ager, Berretta & Ellis Inc.	DWN. BY : B.J.C. DATE : JAN. 1984	FIG. NO. 2



GRAVITY PROFILE LINE 0

CHEVRON CANADA RESOURCES LTD.
YAHK, B.C.

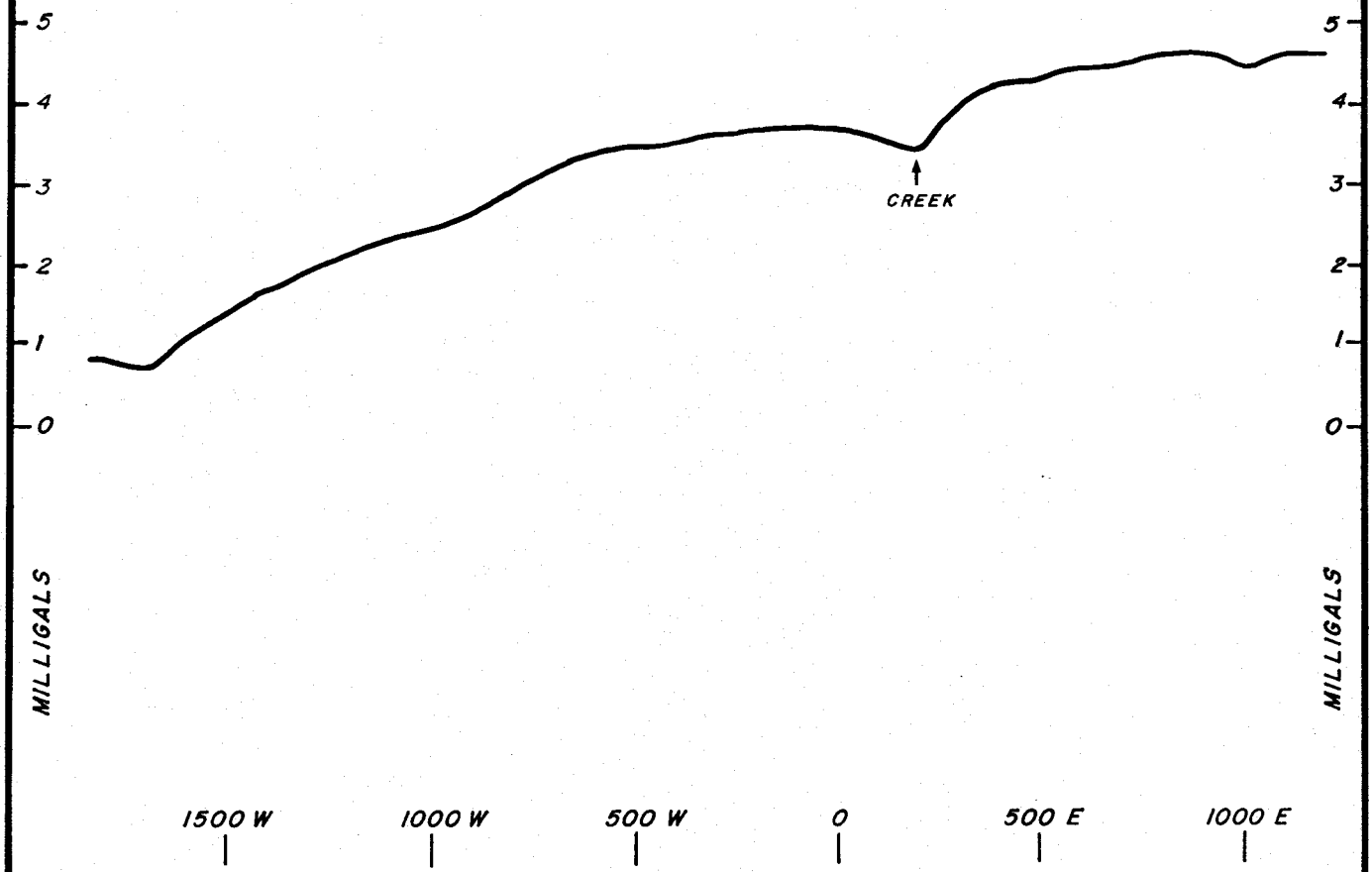
Ager, Berretta & Ellis Inc.	DWN. BY: B.J.C.	FIG. NO.
	DATE: JAN. 1984	3



GRAVITY PROFILE LINE 8 N

CHEVRON CANADA RESOURCES LTD.
YAHK, B.C.

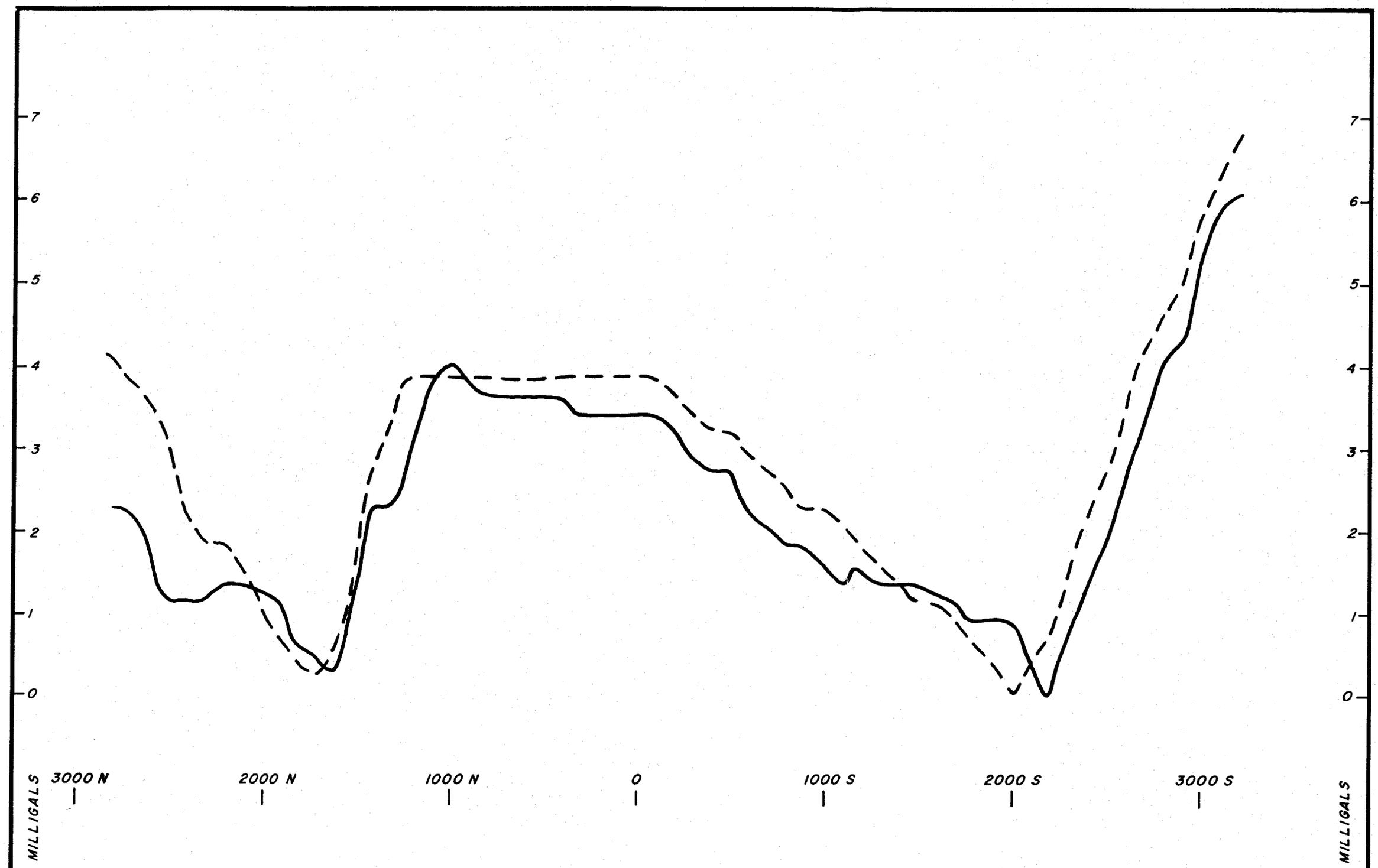
Ager, Berretta & Ellis Inc.	DWN. BY: B.J.C.	FIG. NO.
	DATE: JAN. 1984	4



GRAVITY PROFILE LINE 10 N

CHEVRON CANADA RESOURCES LTD.
YAHK, B.C.

Ager, Berretta & Ellis Inc.	DWN. BY: B.J.C.	FIG. NO.
	DATE: JAN. 1984	5



GRAVITY MODEL LINE 0

CHEVRON CANADA RESOURCES LTD.
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Ager, Berretta & Ellis Inc.	DWN. BY: B.J.C.	FIG. NO.
	DATE: JAN. 1984	6

APPENDIX I

GRAVITY FUNDAMENTALS

There are a number of steps required in order to obtain meaningful, relative gravity values from raw field data. The final values are referred to as Complete Bouguer Gravity and are derived from the following components:

g_o = observed gravity = field observations corrected for drift and adjusted to primary base station gravity datum.

g_{fa} = free air effect = correction for the relative distance of the gravity station from the mass of the earth (point source mass). This calculation assumes a normal free air and corrects for relative differences in distance from the elevation datum.

g_{bs} = Bouguer slab effect = correction for the relative differences in thickness of rock material between gravity stations and the elevation datum. This calculation requires that a mean density for rock types between the lowest and highest grid elevations be established. All stations are then corrected for the gravity effect caused by this assumed slab of the derived density above the elevation datum.

g_l = latitude effect = correction for change of observed gravity with change in latitude - due primarily to the difference in the earth's radius between the poles and equator.

g_t = terrain effect = correction for variations caused by local terrain. The vertical component of the gravitational effect exerted by nearby hills, or not exerted by valleys or gullies, will affect the net reading obtained at any one station. The overall effect on a given line profile or grid area will be a function of the station spacing relative to the frequency of the terrain correction.

Accurate and appropriate application of the above corrections yields Complete Bouguer Gravity values which are, in theory, free from all effects except those caused by relative changes in density within rock units below the survey area.

$$G_{cb} = g_o - (g_{fa} + g_{bs} + g_l + g_t) = \text{Complete Bouguer Gravity.}$$

Changes in relative gravity values which may result in "anomalies" are a function of:

- the difference in densities between rock units;
- the sizes of rock units relative to each other and relative to the grid spacing or "target" size;
- the distance from the area of density contrast to the observation points.

For example: Steeply dipping, near surface massive sulphide deposits or coal seams will give sharp featured gravity anomalies, the former greater than background, the latter less than background. Density contrasts at depth, such as slopes or changes in basement stratigraphy, will result in very low frequency changes, often referred to as gradients.

APPENDIX II

GRAVITY LISTING

Elevation density factor : 2.10 grams per cc above 1700 meters
2.67 grams pre cc below 1700 meters
Gravity datum as printed : arbitrary
Elevation datum : 1524 meters at line 0 station 0
Grid spacing : 100 meter stations on lines offset 200 meters, see Figure X

GRAVITY

Base station at line 0 station 0 : 4158.50 milligals

Field work : 2 October to 14 October 1983

Meter Counter Reading : 4000.00

Pertinent Meter Factor : 1.02681

CREW

Gregory Paquin	Project Geophysicist/ Gravity Observer
Larry Carlson	Surveyor
Tom Roney	Field Assistant

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
LINE 10S							
1000S	20W	1607.46	5273.81	123.33	2.60	3.02	459.96
1000S	19W	1631.68	5353.28	118.53	2.64	2.92	460.09
1000S	18W	1659.35	5444.07	112.86	2.68	2.78	460.01
1000S	17W	1687.75	5537.25	107.18	2.72	2.62	460.06
1000S	16W	1713.23	5620.83	101.90	2.76	2.51	459.96
1000S	15W	1732.04	5682.55	97.91	2.80	2.52	459.89
1000S	14W	1739.53	5707.11	96.37	2.84	2.49	459.90
1000S	13W	1728.33	5670.37	98.79	2.88	2.39	459.96
1000S	12W	1703.43	5588.68	104.26	2.92	2.20	460.15
1000S	11W	1675.62	5497.45	110.25	2.96	2.16	460.41
1000S	10W	1652.92	5422.98	114.91	3.00	2.18	460.46
1000S	9W	1630.40	5349.09	119.50	3.04	2.22	460.49
1000S	8W	1603.77	5261.70	124.80	3.08	2.25	460.38
1000S	7W	1578.24	5177.95	129.92	3.12	2.24	460.27
1000S	6W	1554.25	5099.23	134.76	3.16	2.22	460.19
1000S	5W	1530.63	5021.75	139.62	3.20	2.15	460.16
1000S	4W	1505.63	4939.72	144.66	3.24	2.04	459.98
1000S	3W	1485.34	4873.15	148.80	3.28	1.92	459.86
1000S	2W	1466.18	4810.30	152.71	3.32	1.78	459.73
1000S	1W	1452.27	4764.66	155.44	3.36	1.70	459.55
1000S	0W	1436.41	4712.64	158.46	3.40	1.57	459.22
1000S	1W	1417.78	4651.51	162.17	3.44	1.49	459.05
1000S	2W	1401.12	4596.86	165.46	3.48	1.38	458.84
1000S	3W	1385.63	4546.03	168.50	3.52	1.23	458.58
1000S	4W	1370.81	4497.41	171.26	3.56	1.16	458.26
1000S	5W	1362.48	4470.07	172.84	3.60	1.08	458.08
1000S	6W	1354.33	4443.33	174.29	3.64	1.00	457.81
1000S	7W	1346.21	4416.71	175.84	3.68	.98	457.71
1000S	8W	1342.03	4402.99	176.41	3.72	.95	457.43
1000S	9W	1331.28	4367.72	178.28	3.76	.92	457.10
1000S	10W	1313.41	4309.10	181.51	3.80	.88	456.65
1000S	11W	1314.60	4313.00	181.42	3.84	.82	456.78
1000S	12W	1317.56	4322.71	180.80	3.88	.84	456.83
LINE 8S							
800S	18W	1719.58	5641.68	99.93	2.54	2.95	443.66
800S	17W	1739.09	5705.69	95.90	2.58	2.88	443.44
800S	16W	1758.18	5768.32	91.77	2.62	2.82	443.04
800S	15W	1760.65	5776.42	91.36	2.66	2.68	443.02
800S	14W	1740.56	5710.49	95.74	2.70	2.50	443.31
800S	13W	1711.81	5616.18	102.25	2.74	2.46	444.16
800S	12W	1683.11	5522.03	108.45	2.78	2.28	444.58
800S	11W	1655.84	5432.54	114.29	2.82	2.28	445.09
800S	10W	1632.55	5356.15	119.14	2.86	2.35	445.47
800S	9W	1608.09	5275.88	123.94	2.90	2.38	445.53
800S	8W	1580.96	5186.88	129.52	2.94	2.39	445.83

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
800S	7W	1556.81	5107.63	134.52	2.98	2.35	446.08
800S	6W	1533.67	5031.72	139.26	3.02	2.22	446.17
800S	5W	1512.46	4962.15	143.56	3.06	2.09	446.21
800S	4W	1495.33	4905.94	147.04	3.10	1.98	446.25
800S	3W	1479.18	4852.96	150.21	3.14	1.88	446.19
800S	2W	1461.56	4795.15	153.56	3.18	1.78	446.01
800S	1W	1445.36	4742.01	156.65	3.22	1.70	445.87
800S	0W	1422.54	4667.13	161.09	3.26	1.60	445.76
800S	1W	1408.61	4621.44	163.91	3.30	1.47	445.75
800S	2W	1393.70	4572.49	166.83	3.34	1.31	445.62
800S	3W	1383.36	4538.57	168.78	3.38	1.20	445.47
800S	4W	1381.44	4532.29	169.10	3.42	1.06	445.31
800S	5W	1380.06	4527.75	169.18	3.46	.98	445.08
800S	6W	1377.90	4520.67	169.51	3.50	.97	445.01
800S	7W	1376.23	4515.21	169.66	3.54	1.00	444.90
800S	8W	1362.52	4470.20	172.02	3.58	.96	444.57
800S	9W	1343.31	4407.20	175.70	3.62	.90	444.45
800S	10W	1349.60	4427.82	174.50	3.66	.80	444.43
800S	11W	1340.54	4398.08	176.40	3.70	.67	444.45
800S	12W	1336.24	4383.99	177.27	3.74	.55	444.40
LINE 6S							
600S	18W	1769.53	5805.55	88.95	2.40	3.15	442.57
600S	17W	1784.95	5856.13	85.68	2.44	3.15	442.37
600S	16W	1789.51	5871.11	84.78	2.48	3.10	442.36
600S	15W	1768.94	5803.61	89.57	2.52	2.79	442.83
600S	14W	1738.61	5704.11	96.36	2.56	2.67	443.58
600S	13W	1708.49	5605.29	102.96	2.60	2.63	444.25
600S	12W	1676.70	5500.99	109.65	2.64	2.61	444.71
600S	11W	1646.82	5402.95	115.90	2.68	2.62	445.13
600S	10W	1618.57	5310.26	121.71	2.72	2.64	445.44
600S	9W	1587.92	5209.72	127.94	2.76	2.68	445.72
600S	8W	1559.20	5115.47	133.79	2.80	2.65	445.94
600S	7W	1535.92	5039.10	138.68	2.84	2.54	446.18
600S	6W	1517.02	4977.09	142.48	2.88	2.32	446.08
600S	5W	1501.60	4926.52	145.73	2.92	2.15	446.17
600S	4W	1485.84	4874.81	148.97	2.96	2.02	446.22
600S	3W	1469.86	4822.36	152.04	3.00	1.95	446.11
600S	2W	1449.04	4754.07	156.03	3.04	1.90	446.00
600S	1W	1429.32	4689.36	159.94	3.08	1.83	446.00
600S	0W	1413.65	4637.96	163.04	3.12	1.74	445.97
600S	1W	1408.06	4619.61	164.10	3.16	1.56	445.79
600S	2W	1406.13	4613.30	164.27	3.20	1.30	445.36
600S	3W	1408.93	4622.48	163.54	3.24	1.17	445.09
600S	4W	1411.75	4631.72	163.07	3.28	1.08	445.12
600S	5W	1411.60	4631.25	162.92	3.32	1.02	444.92
600S	6W	1405.52	4611.30	164.37	3.36	1.04	445.24
600S	7W	1402.21	4600.44	164.73	3.40	1.07	445.02

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
600S	8W	1388.33	4554.90	167.48	3.44	1.02	445.02
600S	9W	1374.47	4509.41	170.24	3.48	.95	445.03
600S	10W	1361.89	4468.14	172.73	3.52	.90	445.03
600S	11W	1349.86	4428.67	175.10	3.56	.84	445.02
600S	12W	1339.71	4395.36	177.04	3.60	.82	444.98
LINE 4S							
400S	18W	1820.45	5972.60	77.45	2.26	3.70	441.49
400S	17W	1830.68	6006.17	75.25	2.30	3.80	441.45
400S	16W	1828.97	6000.57	75.71	2.34	3.85	441.66
400S	15W	1804.04	5918.77	81.38	2.38	3.60	442.22
400S	14W	1765.56	5792.53	89.89	2.42	3.30	442.90
400S	13W	1732.24	5683.19	97.33	2.46	3.06	443.58
400S	12W	1697.75	5570.05	104.77	2.50	2.95	444.17
400S	11W	1663.72	5458.39	111.85	2.54	2.87	444.51
400S	10W	1632.83	5357.05	118.34	2.58	2.80	444.90
400S	9W	1601.89	5255.53	124.68	2.62	2.75	445.14
400S	8W	1572.78	5160.04	130.53	2.66	2.68	445.24
400S	7W	1546.47	5073.72	135.87	2.70	2.61	445.37
400S	6W	1524.96	5003.15	140.33	2.74	2.45	445.48
400S	5W	1505.04	4937.80	144.38	2.78	2.33	445.53
400S	4W	1484.27	4869.65	148.57	2.82	2.24	445.59
400S	3W	1464.27	4804.04	152.74	2.86	2.04	445.66
400S	2W	1459.33	4787.82	153.92	2.90	1.73	445.60
400S	1W	1455.26	4774.49	154.90	2.94	1.58	445.67
400S	0W	1452.02	4763.86	155.44	2.98	1.46	445.49
400S	1E	1450.50	4758.85	155.61	3.02	1.37	445.31
400S	2E	1455.69	4775.88	154.54	3.06	1.30	445.23
400S	3E	1450.90	4760.18	155.59	3.10	1.20	445.28
400S	4E	1444.58	4739.44	156.83	3.14	1.18	445.30
400S	5E	1435.43	4709.42	158.64	3.18	1.16	445.33
400S	6E	1424.88	4674.79	160.65	3.22	1.13	445.27
400S	7E	1412.03	4632.63	163.06	3.26	1.10	445.17
400S	8E	1395.75	4579.22	166.27	3.30	1.06	445.17
400S	9E	1380.71	4529.90	169.09	3.34	1.01	445.03
400S	10E	1366.43	4483.04	171.84	3.38	.99	444.99
400S	11E	1352.63	4437.77	174.56	3.42	.98	445.02
400S	12E	1338.63	4391.83	177.25	3.46	.95	444.97
LINE 2S							
200S	18W	1870.35	6136.32	65.85	2.12	4.70	440.57
200S	17W	1890.14	6201.25	60.53	2.16	5.10	439.58
200S	16W	1871.45	6139.93	65.00	2.20	4.44	439.75
200S	15W	1829.51	6002.32	75.13	2.24	3.90	441.14
200S	14W	1790.77	5875.24	83.97	2.28	3.60	442.10

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
200S	13W	1755.44	5759.33	92.10	2.32	3.35	443.07
200S	12W	1717.53	5634.93	100.42	2.36	3.15	443.77
200S	11W	1682.84	5521.11	108.01	2.40	2.92	444.35
200S	10W	1651.41	5418.02	114.83	2.44	2.74	444.84
200S	9W	1626.35	5335.81	120.02	2.48	2.62	445.02
200S	8W	1603.13	5259.61	124.95	2.52	2.53	445.34
200S	7W	1577.88	5176.77	130.30	2.56	2.42	445.65
200S	6W	1554.53	5100.16	135.06	2.60	2.28	445.72
200S	5W	1531.05	5023.12	139.89	2.64	2.05	445.74
200S	4W	1513.39	4965.20	143.51	2.68	1.82	445.69
200S	3W	1505.87	4940.52	145.27	2.72	1.63	445.83
200S	2W	1493.22	4899.02	147.77	2.76	1.48	445.73
200S	1W	1490.04	4888.60	148.38	2.80	1.38	445.65
200S	0W	1493.11	4898.66	147.69	2.84	1.34	445.57
200S	1E	1493.29	4899.26	147.66	2.88	1.30	445.57
200S	2E	1490.52	4890.17	148.18	2.92	1.27	445.56
200S	3E	1480.83	4858.37	149.99	2.96	1.24	445.47
200S	4E	1468.28	4817.18	152.29	3.00	1.22	445.32
200S	5E	1454.50	4771.98	154.94	3.04	1.23	445.31
200S	6E	1441.43	4729.09	157.55	3.08	1.22	445.38
200S	7E	1423.00	4668.64	161.11	3.12	1.19	445.32
200S	8E	1404.31	4607.31	164.86	3.16	1.15	445.40
200S	9E	1388.48	4555.39	167.94	3.20	1.12	445.37
200S	10E	1372.12	4501.70	171.20	3.24	1.08	445.42
200S	11E	1356.06	4449.02	174.20	3.28	1.04	445.26
200S	12E	1331.26	4367.65	178.90	3.32	1.02	445.10
BASELINE NORTH SOUTH							
0	28W	1669.07	5475.95	109.62	1.58	3.45	458.35
0	27W	1702.93	5587.04	102.64	1.62	3.39	458.32
0	26W	1738.23	5702.85	95.06	1.66	3.30	457.96
0	25W	1769.91	5806.79	88.01	1.70	3.10	457.27
0	24W	1796.66	5894.55	82.47	1.74	2.98	457.16
0	23W	1797.58	5897.58	82.94	1.78	2.50	457.38
0	22W	1804.85	5921.42	81.46	1.82	2.48	457.42
0	21W	1822.66	5979.86	77.49	1.86	2.73	457.40
0	20W	1846.61	6058.42	71.91	1.90	3.20	457.26
0	19W	1867.20	6126.00	67.07	1.94	3.85	457.35
0	18W	1896.19	6221.10	59.67	1.98	4.65	456.76
0	17W	1908.06	6260.04	56.51	2.02	5.10	456.54
0	16W	1900.21	6234.28	58.10	2.06	5.00	456.45
0	15W	1861.78	6108.19	67.53	2.10	4.35	457.36
0	14W	1821.41	5975.74	77.18	2.14	3.90	458.29
0	13W	1787.64	5864.97	84.60	2.18	3.60	458.49
0	12W	1744.89	5724.72	94.12	2.22	3.25	458.90
0	11W	1702.68	5586.21	103.88	2.26	2.92	459.68
0	10W	1671.39	5483.56	111.04	2.30	2.62	460.13
0	9W	1649.46	5411.63	115.39	2.34	2.48	459.87

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
0	8W	1621.90	5321.18	121.09	2.38	2.38	459.83
0	7W	1595.41	5234.29	126.64	2.42	2.23	459.82
0	6W	1575.06	5167.53	130.89	2.46	2.08	459.77
0	5W	1552.04	5092.01	135.78	2.50	1.86	459.74
0	4W	1537.21	5043.34	138.93	2.54	1.62	459.63
0	3W	1529.19	5017.04	140.71	2.58	1.43	459.61
0	2W	1520.14	4987.35	142.55	2.62	1.36	459.56
0	1W	1525.70	5005.57	141.42	2.66	1.33	459.58
0	0W	1524.00	5000.00	141.78	2.70	1.30	459.60
0	1E	1517.82	4979.73	142.97	2.74	1.28	459.54
0	2E	1509.33	4951.87	144.46	2.78	1.27	459.31
0	3E	1494.51	4903.25	147.26	2.82	1.26	459.09
0	4E	1477.65	4847.94	150.50	2.86	1.25	458.89
0	5E	1462.42	4797.95	153.46	2.90	1.24	458.74
0	6E	1445.30	4741.81	156.65	2.94	1.23	458.44
0	7E	1423.89	4671.54	160.79	2.98	1.22	458.20
0	8E	1405.51	4611.26	164.40	3.02	1.21	458.05
0	9E	1387.71	4552.87	167.94	3.06	1.18	457.94
0	10E	1362.44	4469.95	172.90	3.10	1.12	457.67
0	11E	1351.32	4433.46	175.08	3.14	1.08	457.56
0	12E	1337.81	4389.13	177.94	3.18	1.05	457.65
0	13E	1324.57	4345.69	180.60	3.22	1.00	457.58
0	14E	1304.21	4278.91	184.67	3.26	.94	457.43
0	15E	1289.28	4229.93	187.78	3.30	.87	457.44
0	16E	1279.15	4196.70	190.00	3.04	.84	457.28
0	17E	1266.86	4156.38	192.43	3.08	.87	457.25
0	18E	1246.47	4089.48	196.29	3.12	.89	456.97
0	19E	1235.85	4054.62	198.47	3.16	.92	457.04
0	20E	1221.69	4008.16	201.15	3.20	1.04	456.96
0	21E	1222.02	4009.26	200.55	3.24	1.22	456.65
0	22E	1221.65	4008.04	200.12	3.28	1.30	456.26
0	23E	1258.51	4128.98	193.26	3.32	1.37	457.10
0	24E	1264.74	4149.41	192.39	3.36	1.60	457.79
0	25E	1273.38	4177.76	190.54	3.40	1.88	458.04
0	26E	1308.37	4292.56	183.90	3.44	2.07	458.83
0	27E	1334.21	4377.34	178.92	3.48	2.24	459.38
0	28E	1363.75	4474.26	173.26	3.52	2.48	460.08
0	29E	1393.36	4571.39	167.39	3.56	2.55	460.42
0	30E	1427.92	4684.79	160.93	3.60	2.62	461.19
0	31E	1457.25	4780.99	155.56	3.64	2.62	461.90
0	32E	1461.69	4795.56	155.04	3.66	2.52	462.21
LINE 2N							
200N	18W	1894.48	6215.50	60.30	1.84	4.08	438.86
200N	17W	1886.98	6190.89	62.19	1.88	4.10	439.34
200N	16W	1879.16	6165.22	63.82	1.92	4.12	439.49
200N	15W	1862.87	6111.79	67.91	1.96	4.00	440.30
200N	14W	1831.02	6007.29	75.38	2.00	3.65	441.19

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
200N	13W	1801.32	5909.84	82.11	2.04	3.30	441.77
200N	12W	1763.82	5786.82	90.56	2.08	3.05	442.63
200N	11W	1726.23	5663.48	99.13	2.12	2.72	443.52
200N	10W	1689.69	5543.61	107.38	2.16	2.47	444.37
200N	9W	1664.68	5461.55	112.86	2.20	2.25	444.75
200N	8W	1645.99	5400.24	116.79	2.24	2.14	444.94
200N	7W	1621.88	5321.13	121.81	2.28	2.00	445.11
200N	6W	1595.07	5233.17	127.40	2.32	1.80	445.27
200N	5W	1579.04	5180.59	130.73	2.36	1.60	445.29
200N	4W	1564.12	5131.62	133.80	2.40	1.46	445.32
200N	3W	1550.64	5087.39	136.57	2.44	1.37	445.39
200N	2W	1551.89	5091.49	136.43	2.48	1.34	445.51
200N	1W	1547.28	5076.37	137.31	2.52	1.30	445.48
200N	0W	1535.27	5036.96	139.69	2.56	1.25	445.49
200NE	1	1523.08	4996.97	142.03	2.60	1.27	445.49
200NE	2	1508.16	4948.03	144.87	2.64	1.31	445.48
200NE	3	1491.55	4893.53	148.12	2.68	1.32	445.51
200NE	4	1476.77	4845.05	150.87	2.72	1.30	445.37
200NE	5	1457.36	4781.35	154.60	2.76	1.26	445.28
200NE	6	1438.18	4718.43	158.33	2.80	1.23	445.25
200NE	7	1416.39	4646.94	162.60	2.84	1.20	445.24
200NE	8	1393.96	4573.35	166.97	2.88	1.20	445.24
200NE	9	1373.41	4505.95	171.00	2.92	1.17	445.24
200NE	10	1372.54	4503.10	171.14	2.96	1.14	445.22
200NE	11	1363.83	4474.50	172.71	3.00	1.12	445.10
200NE	12	1345.81	4415.40	176.32	3.04	1.10	445.18
LINE 4N							
400NW	23	1841.52	6041.73	71.74	1.50	4.20	439.67
400NW	22	1842.36	6044.49	72.07	1.54	3.40	439.40
400NW	21	1834.48	6018.63	74.62	1.58	2.92	439.96
400NW	20	1838.61	6032.20	73.81	1.62	2.86	439.95
400NW	19	1839.18	6034.05	73.88	1.66	2.82	440.13
400NW	18	1832.76	6012.98	75.65	1.70	2.58	440.43
400NW	17	1829.15	6001.16	76.54	1.74	2.58	440.65
400NW	16	1818.63	5966.64	79.12	1.78	2.55	441.18
400NW	15	1805.84	5924.67	82.04	1.82	2.55	441.62
400NW	14	1791.97	5879.17	85.18	1.86	2.58	442.10
400NW	13	1773.66	5819.10	89.25	1.90	2.50	442.53
400NW	12	1748.00	5734.91	95.13	1.94	2.38	443.28
400NW	11	1725.82	5662.15	100.09	1.98	2.24	443.78
400NW	10	1697.96	5570.74	106.23	2.04	2.12	444.38
400NW	9	1677.81	5504.62	110.45	2.06	2.00	444.54
400NW	8	1652.05	5420.12	115.89	2.10	1.89	444.84
400NW	7	1631.94	5354.15	120.15	2.14	1.77	445.06
400NW	6	1607.66	5274.48	125.47	2.18	1.58	445.46
400NW	5	1596.59	5238.15	127.71	2.22	1.43	445.41
400NW	4	1581.69	5189.27	130.85	2.26	1.36	445.59

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
400NW	3	1572.73	5159.87	132.57	2.30	1.33	445.56
400NW	2	1561.55	5123.18	134.79	2.34	1.29	445.58
400NW	1	1549.33	5083.10	137.14	2.38	1.27	445.54
400NW	0	1533.13	5029.95	140.23	2.42	1.28	445.50
400NE	1	1515.87	4973.34	143.56	2.46	1.30	445.49
400NE	2	1499.44	4919.42	146.84	2.50	1.40	445.68
400NE	3	1482.99	4865.44	149.81	2.54	1.44	445.49
400NE	4	1457.76	4782.69	154.74	2.58	1.30	445.36
400NE	5	1435.82	4710.70	158.98	2.62	1.22	445.25
400NE	6	1411.12	4629.67	163.89	2.66	1.22	445.34
400NE	7	1398.56	4588.45	166.29	2.70	1.18	445.27
400NE	8	1399.43	4591.32	166.06	2.74	1.15	445.22
400NE	9	1399.82	4592.59	165.81	2.78	1.19	445.12
400NE	10	1384.83	4543.41	168.64	2.82	1.21	445.07
400NE	11	1362.08	4468.77	173.27	2.86	1.20	445.25
400NE	12	1344.80	4412.09	176.70	2.90	1.18	445.30
LINE 6N							
600NW	18	1786.82	5862.27	86.53	1.56	1.96	441.52
600NW	17	1786.95	5862.69	86.69	1.60	2.00	441.78
600NW	16	1780.46	5841.41	88.21	1.64	1.94	442.01
600NW	15	1762.48	5782.42	92.26	1.68	1.88	442.50
600NW	14	1750.52	5743.16	95.01	1.72	1.86	442.92
600NW	13	1735.18	5692.84	98.44	1.76	1.84	443.35
600NW	12	1718.83	5639.21	102.20	1.80	1.79	443.88
600NW	11	1704.07	5590.78	105.41	1.84	1.78	444.22
600NW	10	1692.36	5552.36	107.89	1.88	1.78	444.44
600NW	9	1673.60	5490.80	111.80	1.92	1.78	444.70
600NW	8	1655.19	5430.41	115.46	1.96	1.72	444.72
600NW	7	1630.54	5349.56	120.65	2.00	1.60	444.98
600NW	6	1608.71	5277.91	125.29	2.04	1.45	445.21
600NW	5	1598.03	5242.88	127.47	2.08	1.37	445.25
600NW	4	1584.03	5196.95	130.41	2.12	1.33	445.44
600NW	3	1571.08	5154.47	132.91	2.16	1.29	445.39
600NW	2	1555.87	5104.56	136.01	2.20	1.27	445.52
600NW	1	1541.38	5057.01	138.77	2.24	1.25	445.45
600NW	0	1520.90	4989.83	142.67	2.28	1.27	445.38
600NE	1	1501.85	4927.32	146.31	2.32	1.29	445.33
600NE	2	1483.27	4866.37	149.77	2.36	1.35	445.24
600NE	3	1456.97	4780.08	154.91	2.40	1.40	445.30
600NE	4	1426.48	4680.07	160.71	2.44	1.29	445.03
600NE	5	1429.89	4691.23	160.16	2.48	.96	444.86
600NE	6	1431.33	4695.95	160.14	2.52	1.05	445.25
600NE	7	1423.20	4669.29	161.85	2.56	1.12	445.47
600NE	8	1412.13	4632.97	164.09	2.60	1.17	445.63
600NE	9	1404.39	4607.57	165.45	2.64	1.21	445.54
600NE	10	1385.31	4544.99	169.02	2.68	1.24	445.43
600NE	11	1365.56	4480.19	172.62	2.72	1.24	445.19
600NE	12	1342.32	4403.93	177.24	2.76	1.21	445.24

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
LINE 8N							
800NW	18	1744.74	5724.22	96.31	1.42	1.40	442.32
800NW	17	1741.73	5714.35	97.23	1.46	1.36	442.65
800NW	16	1731.24	5679.93	99.47	1.50	1.35	442.86
800NW	15	1719.99	5643.03	102.13	1.54	1.36	443.35
800NW	14	1709.41	5608.29	104.35	1.58	1.37	443.54
800NW	13	1695.96	5564.16	107.38	1.62	1.37	443.97
800NW	12	1688.64	5540.14	108.84	1.66	1.38	444.04
800NW	11	1673.35	5490.00	112.17	1.70	1.38	444.40
800NW	10	1664.02	5459.39	114.21	1.74	1.41	444.67
800NW	9	1655.06	5429.99	115.94	1.78	1.49	444.76
800NW	8	1637.38	5371.98	119.44	1.82	1.52	444.85
800NW	7	1615.74	5300.99	123.87	1.86	1.46	445.01
800NW	6	1597.65	5241.64	127.77	1.90	1.38	445.31
800NW	5	1584.63	5198.91	130.45	1.94	1.34	445.43
800NW	4	1568.99	5147.59	133.69	1.98	1.29	445.58
800NW	3	1555.45	5103.18	136.32	2.02	1.27	445.57
800NW	2	1542.81	5061.72	138.79	2.06	1.25	445.57
800NW	1	1530.50	5021.34	141.01	2.10	1.23	445.39
800NW	0	1506.78	4943.52	145.74	2.14	1.22	445.48
800NE	1	1485.10	4872.39	150.10	2.18	1.21	445.61
800NE	2	1460.07	4790.27	154.97	2.22	1.14	445.53
800NE	3	1455.07	4773.85	156.10	2.26	1.02	445.59
800NE	4	1459.63	4788.81	155.39	2.30	1.05	445.85
800NE	5	1452.89	4766.71	156.99	2.34	1.18	446.29
800NE	6	1441.42	4729.06	159.21	2.38	1.13	446.25
800NE	7	1430.34	4692.73	161.42	2.42	1.17	446.36
800NE	8	1419.21	4656.21	163.67	2.46	1.21	446.50
800NE	9	1405.31	4610.60	166.18	2.50	1.25	446.35
800NE	10	1386.84	4550.00	169.61	2.54	1.27	446.21
800NE	11	1367.41	4486.26	172.94	2.58	1.23	445.72
800NE	12	1344.49	4411.06	177.22	2.62	1.19	445.49
LINE 10N							
1000NW	18	1722.07	5649.84	101.80	1.28	1.17	442.98
1000NW	17	1721.95	5649.46	101.83	1.32	1.06	442.92
1000NW	16	1714.14	5623.81	103.67	1.36	1.03	443.23
1000NW	15	1701.02	5580.78	106.54	1.40	1.04	443.57
1000NW	14	1688.96	5541.21	109.12	1.44	1.07	443.85
1000NW	13	1678.99	5508.48	111.20	1.48	1.10	444.04
1000NW	12	1666.95	5469.00	113.75	1.52	1.14	444.30
1000NW	11	1658.45	5441.10	115.50	1.56	1.18	444.46
1000NW	10	1650.06	5413.58	117.20	1.60	1.23	444.60
1000NW	9	1640.05	5380.74	119.15	1.64	1.30	444.69
1000NW	8	1621.91	5321.23	122.95	1.68	1.36	445.02
1000NW	7	1606.41	5270.37	126.21	1.72	1.35	445.26
1000NW	6	1585.37	5201.33	130.47	1.76	1.28	445.35

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
1000NW	5	1567.84	5143.84	134.05	1.80	1.24	445.48
1000NW	4	1553.53	5096.88	136.89	1.84	1.20	445.51
1000NW	3	1539.20	5049.88	139.76	1.88	1.19	445.59
1000NW	2	1524.95	5003.13	142.50	1.92	1.19	445.57
1000NW	1	1503.88	4933.99	146.62	1.96	1.18	445.57
1000NW	0	1489.63	4887.25	149.37	2.00	1.15	445.53
1000 N	1 E	1481.15	4859.42	150.97	2.04	1.08	445.43
1000 N	2 E	1457.41	4781.53	155.53	2.08	1.00	445.28
1000 N	3 E	1466.81	4812.38	153.47	2.12	1.00	445.11
1000 N	4 E	1462.28	4797.52	154.50	2.16	1.07	445.36
1000 N	5 E	1451.13	4760.94	156.54	2.20	1.13	445.31
1000 N	6 E	1439.79	4723.72	158.81	2.24	1.16	445.42
1000 N	7 E	1425.38	4676.43	161.64	2.28	1.20	445.49
1000 N	8 E	1410.88	4628.86	164.55	2.32	1.22	445.61
1000 N	9 E	1396.32	4581.10	167.28	2.36	1.28	445.58
1000 N	10 E	1376.94	4517.53	170.93	2.40	1.28	445.45
1000 N	11 E	1361.95	4468.33	174.06	2.44	1.22	445.62
1000 N	12 E	1335.70	4382.22	179.09	2.48	1.20	445.50

BASELINE EAST WEST

0 W	20 S	1473.66	4834.83	149.77	4.10	2.55	446.29
0 W	19 S	1461.92	4796.31	152.21	4.03	2.51	446.31
0 W	18 S	1451.41	4761.86	154.33	3.96	2.44	446.22
0 W	17 S	1439.16	4721.67	156.86	3.89	2.39	446.22
0 W	16 S	1430.74	4694.03	158.58	3.82	2.28	446.11
0 W	15 S	1428.16	4685.58	159.13	3.75	2.17	445.97
0 W	14 S	1431.77	4697.40	158.80	3.68	2.00	446.11
0 W	13 S	1433.18	4702.02	158.68	3.61	1.86	446.06
0 W	12 S	1434.91	4707.70	158.62	3.54	1.77	446.18
0 W	11 S	1435.73	4710.40	158.58	3.47	1.68	446.14
0 W	10 S	1436.41	4712.64	158.46	3.40	1.57	445.97
0 W	9 S	1431.32	4695.93	159.45	3.33	1.58	445.90
0 W	8 S	1422.54	4667.13	161.08	3.26	1.60	445.75
0 W	7 S	1418.71	4654.56	162.01	3.19	1.68	445.94
0 W	6 S	1413.65	4637.96	163.03	3.12	1.74	445.96
0 W	5 S	1431.52	4696.59	159.60	3.05	1.61	445.84
0 W	4 S	1452.02	4763.86	155.42	2.98	1.46	445.47
0 W	3 S	1474.02	4836.01	151.17	2.91	1.37	445.39
0 W	2 S	1493.11	4898.66	147.69	2.84	1.34	445.57
0 W	1 S	1508.26	4948.36	144.93	2.77	1.32	445.70
0 W	0 S	1524.00	5000.00	141.79	2.70	1.30	445.56
0 W	1 N	1533.96	5029.37	140.18	2.63	1.28	445.82
0 W	2 N	1535.27	5036.96	139.69	2.56	1.25	445.49
0 W	3 N	1533.77	5032.04	140.12	2.49	1.26	445.56
0 W	4 N	1533.13	5029.95	140.20	2.42	1.27	445.46
0 W	5 N	1528.10	5013.46	141.23	2.35	1.28	445.44
0 W	6 N	1520.90	4989.83	142.67	2.28	1.27	445.38
0 W	7 N	1516.62	4975.79	143.64	2.21	1.25	445.42

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	COMPLETE BOUGUER
0 W 8 N	1506.78	4943.52	145.74	2.14	1.22	445.48
0 W 9 N	1498.14	4915.17	147.54	2.07	1.19	445.48
0 W 10 N	1489.63	4887.25	149.37	2.00	1.15	445.53
0 W 11 N	1494.25	4902.39	148.64	1.93	1.15	445.64
0 W 12 N	1500.41	4922.61	147.60	1.86	1.18	445.77
0 W 13 N	1506.26	4941.80	146.95	1.79	1.22	446.24
0 W 14 N	1506.44	4942.39	147.14	1.72	1.24	446.42
0 W 15 N	1487.77	4881.14	150.82	1.65	1.23	446.34
0 W 16 N	1474.06	4836.16	153.73	1.58	1.19	446.45
0 W 17 N	1461.49	4794.91	156.47	1.51	1.17	446.63
0 W 18 N	1456.90	4779.87	157.32	1.44	1.16	446.49
0 W 19 N	1450.00	4757.23	158.64	1.37	1.15	446.38
0 W 20 N	1439.23	4721.87	160.76	1.30	1.14	446.30
0 W 21 N	1437.13	4714.98	161.43	1.23	1.13	446.47
0 W 22 N	1440.77	4726.94	160.91	1.16	1.12	446.59
0 W 23 N	1439.72	4723.48	161.49	1.09	1.11	446.88
0 W 24 N	1437.55	4716.38	162.24	1.02	1.11	447.14
0 W 25 N	1432.61	4700.15	163.25	.95	1.10	447.09

2:1 at higher elevation of Mt Mahon – why
model the anomaly

plot values
base maps

CHEVRON CANADA RESOURCES LIMITED

YAHK B.C.

N.T.S. 82 F/1

COMPLETE BOUGUER GRAVITY

SPLIT DENSITY

ρ = 2.67 gms/c.c.

ρ = 2.10 gms/c.c.

Ager, Barretta & Ellis Inc.
Vancouver, Canada

DWN. BY: P.A.	FIG. NO.
SCALE: 1:5000	7
DATE: JAN. 1984	