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A REPORT ON MAGNETOMETER SURVEYING

on ³

THE DEVON PROPERTY of DALHOUSIE OIL CORP.

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BEATTY AND COULSON TOWNSHIPS ONTARIO

Markham, Ontario August 15, 1983 L.G.Hobbs, P.Eng.

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OCT 1 2 1984

MINING LANDS SECTION

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A REPORT ON MAGNETOMETER SURVEYING on THE DEVON PROPERTY OF DALHOUSIE OIL CORP.

PROPERTY AND ACCESS

The property lies approximately 8 miles northeast of the town of Matheson, Ontario and consists of 13 claims in Beatty and Coulson townships in the Larder Lake mining division. The claims have been transferred to Dalhousie Oil Corporation and are numbered:

Beatty Twp.

L532228-231

Coulson Twp.

L532226-227 L532849-850,L532852 L618557-560

Access to the property is by secondary roads leading off Hwy. 101, east of Matheson. The Coulson tower road crosses the property.

GRID SYSTEM

The control grid was established with the base line running east-west along the Beatty/Coulson township line and cross lines at 200 ft. intervals and picketed at 100 ft. spacings. All the claims in the group except L532852 were covered by the grid. A total of 20 miles of cross lines and 6200 ft. of base line were cut and read.

MAGNETOMETER SURVEY

A GEM Systems GSM8 total field proton magnetometer with a sensitivity of 1 to 2 gammas was used for the survey. Diurnal corrections were made by the time-linear method using a system of base stations along the base line. A total of approximately 1027 stations were read.

The data are presented on a contour map at a scale of 1 in. = 200 ft. which accompanies this report.

SURVEY RESULTS

1. Highly magnetic areas correspond to basic and ultrabasic rocks which are generally well exposed on the property. A complex of intrusive gabbro, peridotite, pyroxenite and various related rock types occupies most of the southern tier of claims and is well outlined by the survey. Peridotite outcrop areas in particular exhibit very high gradients and were largely impossible

L.G. HOBBS, P. ENG. -

to read, resulting in a H.G. (high gradient) designation. A remarkably straight east-west northern contact is indicated for this southern complex by the survey, the contact lying about 200 ft. south of and parallel to the base line. Irregularities in the pattern in this area, as for example on lines 42E and 54E are apparently due to crosscutting diabase dikes of lower magnetic intensity.

2. The magnetically indicated contact between volcanics and the ultrabasic intrusive referred to in section one appears to shift north approximately 300 ft. in the area of line 28E. Alignment with a possible magnetic termination at 30E,98 suggests a possible offsetting feature striking at 165 degrees, roughly parallel to the large diabase dike 1100 ft. to the east. Dextral offsetting along southeasterly striking faults is possibly indicated.

3. At least two major diabase dikes are known to cross the property in a 160 degree direction. Neither is traceable by its magnetic response.

4. A northern band of peridotite and pyroxenite accounts for the strong magnetic trace that passes through 40E,13N. It swings northerly along line 38E and then westward, its extension centering at 30E,17N. This suggests a fold or faulted offset, perhaps along the trend of the diabase dike that strikes at about 160 degrees and cuts just east of the 30E,17N location. VLF survey results suggest an offset here also.

It should be noted that although the magnetic pattern contoured for this band of peridotite strikes slightly south of west, the outcrop evidence shows a strike somewhat south of east. The two northern shafts, shown on the plan, appear to be on the same volcanic/ultrabasic contact.

5. Low magnetic response in the general area of 56E,8N is unexpected. Occurrence of a slightly magnetic rock which outcrops in the area and has been identified both in outcrop and in drill core as a fine grained peridotite suggest a stronger response.

6. Other isolated magnetic highs in the northeasterly part of the property, as at 58E,17N and 46E,18N are, as yet, unexplained. Their possible alignment in northeasterly strike directions suggests the possibility of Keweenawan diabase dikes.

7. The northwestern area of the property is magnetically relatively flat. Only basaltic volcanics are known to occur there.



Respectfully submitted.

L.G. HOBBS, P. ENG.

L.G. Mobbs, P.Eng.

APPENDIX

CERTIFICATE

I, L.G. Hobbs, do hereby certify:

That I graduated from the University of Toronto in 1958 with the degree of B.A.Sc. in engineering geology.

That I have practiced my profession since graduation.

That I maintain an office at Suite 4, 101 Amber St., Markham, Ont.

That the foregoing report is based on personal supervision of the work at the property and of the subsequent data treatment and presentation of the survey results contained herein.

L.G. Hobbs, P.Eng.

Dated at Markham, Ont. August 15, 1983



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A REPORT ON VLF ELECTROMAGNETIC SURVEYING

on

THE DEVON PROPERTY of DALHOUSIE OIL CORP.

BEATTY AND COULSON TOWNSHIPS ONTARIO

6 × 140

Markham, Ontario August 15, 1983 L.G.Hobbs, P.Eng.

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VLF ELECROMAGNETIC SURVEY

A Geonics EM16 VLF (Very Low Frequency) receiver was used for the survey and tuned to Cutler Me. Readings of both in-phase and quadrature response were recorded at each station. Approximately 1030 stations were read.

The data, which was plotted and profiled at a horizontal scale of 1 in. = 200 ft., is presented on a map which accompanies this report. In addition, the in-phase readings were Fraser filtered and contoured. The Fraser map is also included.

SURVEY RESULTS

1. The strongest anomaly detected (Anomaly A) is centered at 40E,55. It strikes south of west and is about 800 ft. long in its strongest part. It has strong magnetic coincidence. In-phase dip angles reach as high as -108 and Fraser contours peak at 275. Quadrature readings are reverse to in-phase indicating sulphides

as a possible source. The anomaly is sharp, compact and apparently originates at relatively shallow depth. It lies in low ground immediately north of a gabbro outcrop.

Because of the favourable appearance of the anomaly and its proximity to the old mine workings a diamond drill hole (DC821) was drilled at an azimuth of 180 degrees down line 38E to test it. The hole cut pyroxenite, gabbro and peridotite but nothing conductive that would explain the anomaly. The mine workings do not extend into the anomalous area. Interpretation of the profiles on line 36E and on line 30E (another on-strike, weaker anomaly) indicates a possible south dip although the dip on line 38E appears nearly vertical. It is, therefore, possible that the drill hole undercut a south dipping conductor. A second survey of the immediate anomalous area using a conventional cable EM unit should be considered. If it is then thought to be justified, a second short hole drilled south to north may be required.

2. Anomalies B (32E,18N to 38E,17N) and C (40E,14N) lie close together in the north central part of the survey area. Both lie on the north edge of strong east-west trending magnetic anomalies and both have fairly sharp, strong crossover patterns. Anomaly B, the larger of the two, shows Fraser values upto 133 and in-phase readings as high as -53 degrees. Quadrature readings show no reversal. The pattern of magnetic contours in the area suggests these anomalies may be faulted offsets of each other. Outcrop and drilling evidence shows that they probably lie on the north edges of peridotite bands. On both ends the anomalies appear to be cut off by major diabase dikes striking at approximately 160 degrees.

Drill hole DC825, drilled north along line 38E tested anomaly B. It cut 16 ft. of graphitic material near the north contact of an ultrabasic sequence with volcanics, thus explaining the anomaly. Anomaly C is assumed to be due to a similar rock sequence.

3. Numerous other anomalies occur, in most cases coinciding with overburdened areas between outcrops and showing no quadrature response that would indicate sulphides as a cause. Weak Fraser closures in the southeast part of the survey are on or near peridotite outcrops.

A known gossan zone which passes in an arc 1200 ft. long and just north of the main shaft (near 44E,B.L.), shows one weak response at 44E,1+50N on the Fraser map. The mineralization consists of spotty pyrrhotite and chalcopyrite concentrations in basaltic volcanics and probably does not have electrical continuity over enough strike length to form a good conductor.



Respectfully submitted,

L.G. Nøbbs, P.Eng.

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Dated at Markham, Ont. August 15, 1983

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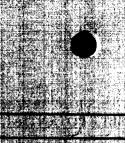
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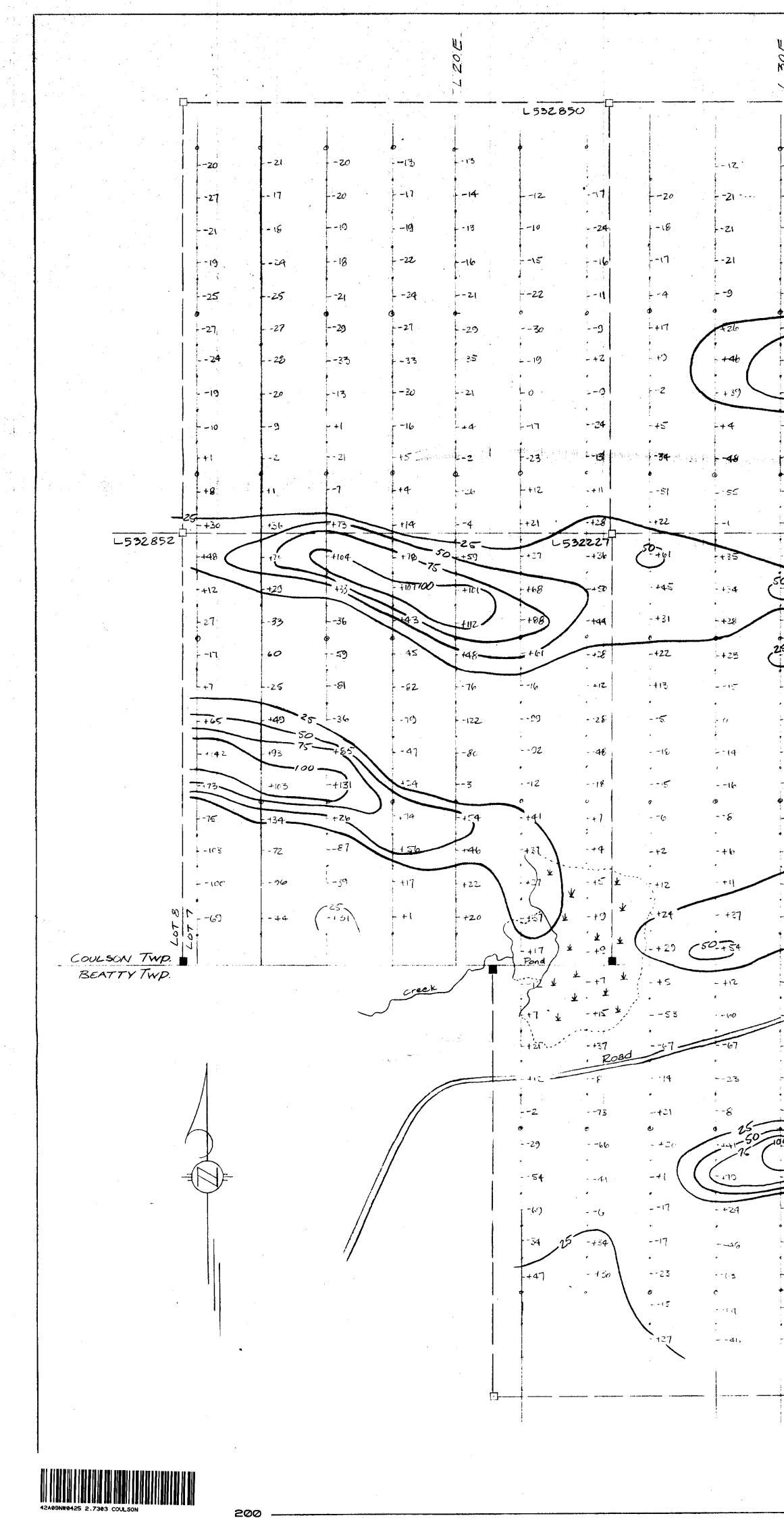
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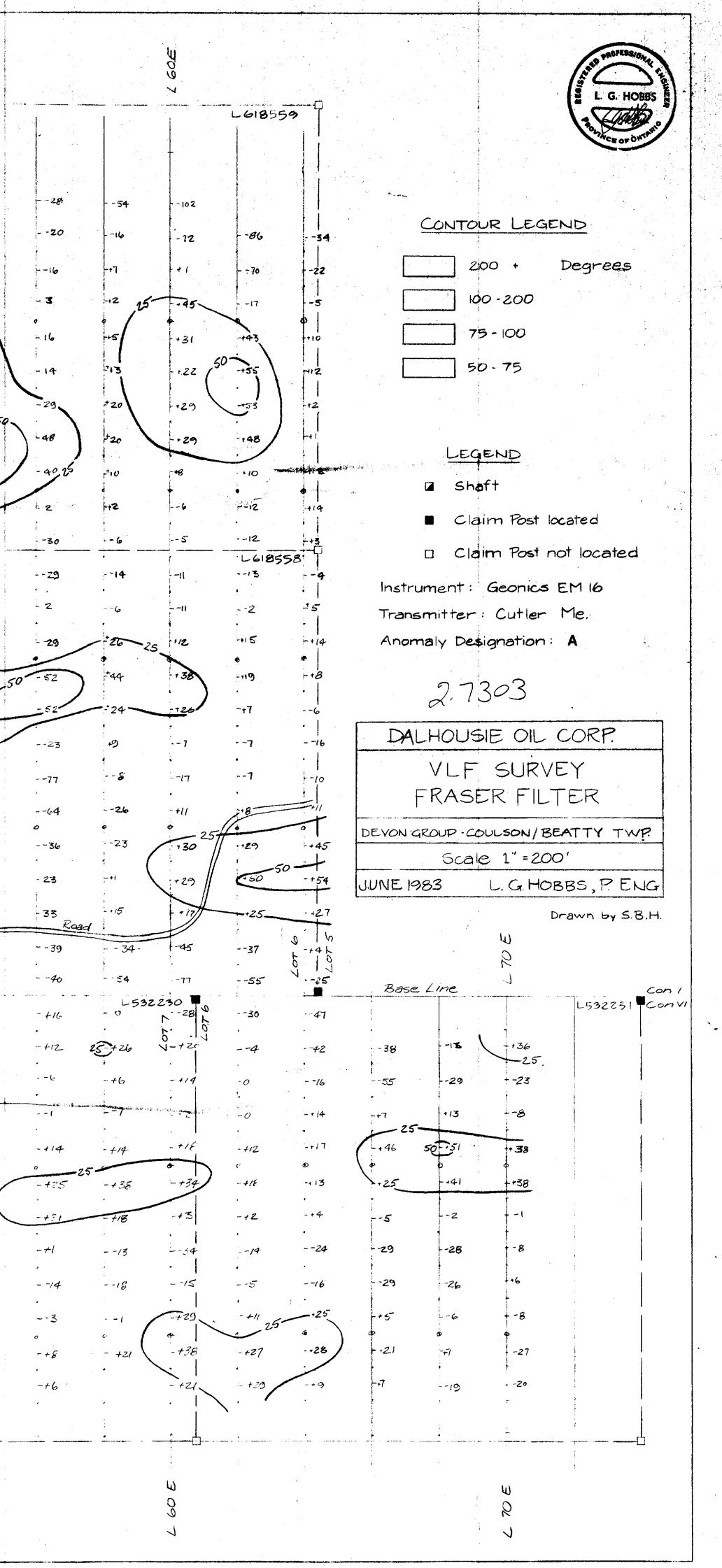
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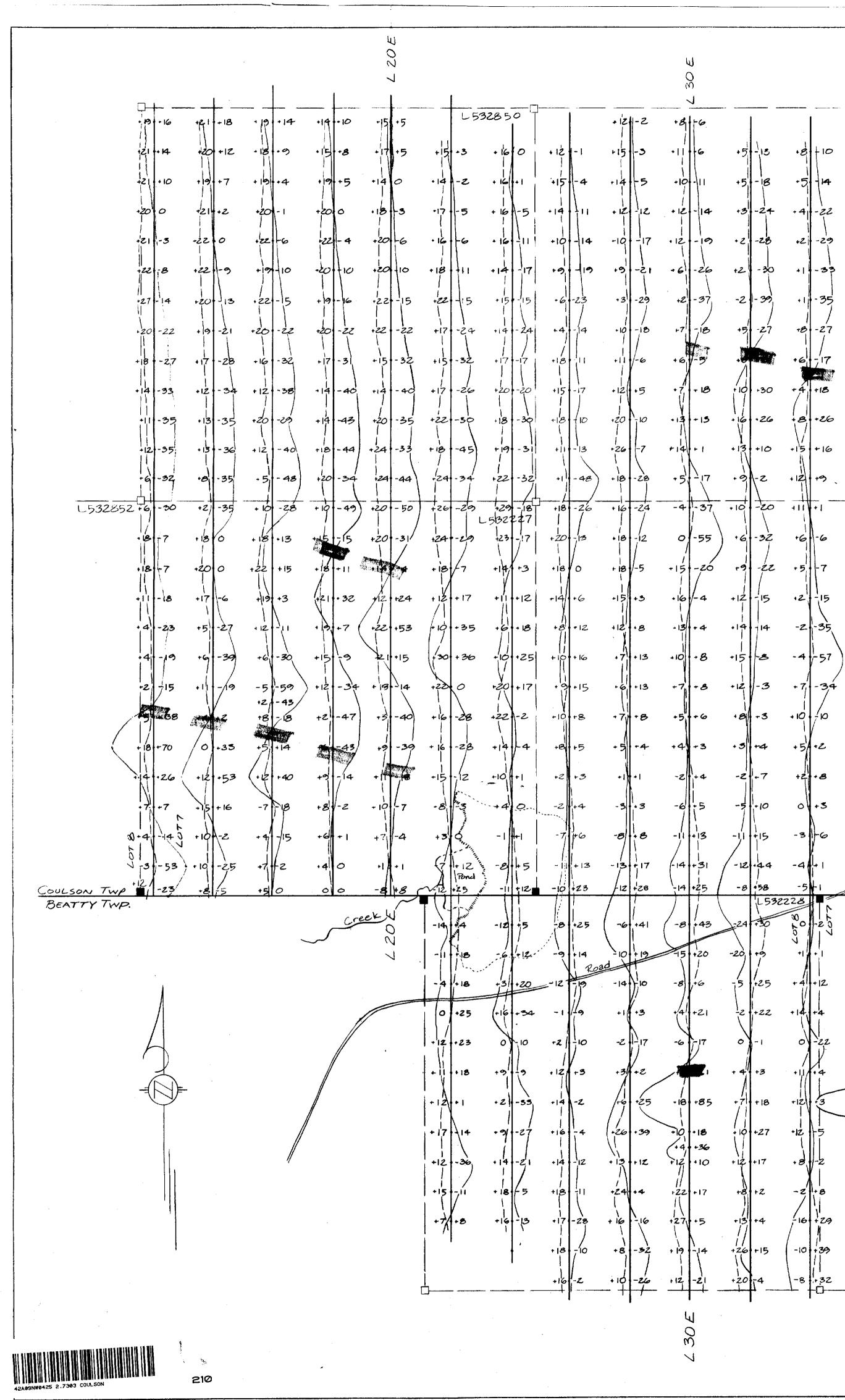
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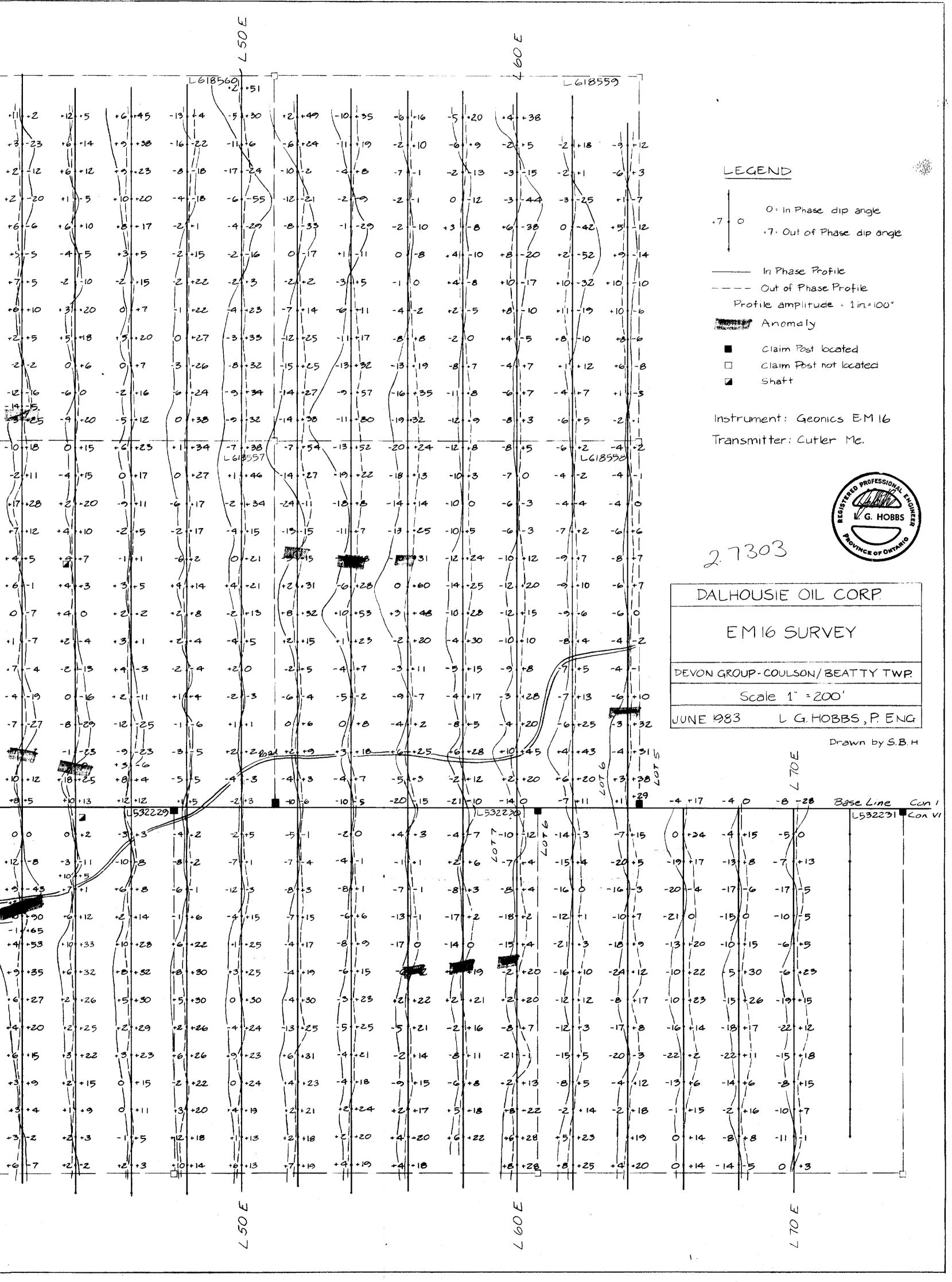


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8855 8856 (8723 8737 8734 8692 8568 84		$\frac{1036}{2025} = 9025 = 9223 = 9226 = 9093 = 9096 = 3446 = 9622 = 9587 = CONTIDUM = 100000 = 100000 = 10000 = 10000 = 100000 = 100000 = 100000 = 100000 = 100000 = 100000 = 100000 = 1000000 = 1000000 = 100000 = 100000000$
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8871 - 6856 - 8794 8765 8719 - 8688 8651 860		3645 8633 8941 8252 5422 5870 5873 8612 8795 7936 5873 8612 8795 7936
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8005 8756 // 8585 8563 8510 8514 8534 855 865		3056 8207 8404 8406 8218 8086 8089 8014 7709 7710 Instrument: GEM GSM8 proton UUNE 20, 1965 L.G. HOPES RITING
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\frac{7492}{3860} + \frac{7956}{8222} + \frac{8196}{7916} + \frac{7316}{7921} + \frac{7959}{7959} + \frac{7962}{7962} + \frac{7243}{7137} + \frac{7377}{518} + \frac{7377}{518} + \frac{7377}{518} + \frac{7377}{518} + \frac{10}{10} + $
TWR 8070 9318 9933 4 9680 9955 3 3744 9220 93		$\frac{3860}{8349} = \frac{8222}{8360} = \frac{8196}{8101} = \frac{7956}{7403} = \frac{7959}{6} = \frac{7962}{7959} = \frac{7243}{7137} = \frac{7137}{16} = \frac{6947}{6} = \frac{1}{6} $
BEATTY TWP	0 8332 8177 BOBA 10 7384 . 7773 8140 8648 9627 8308	1335 7787 7811 78262 7232 0706 7049 7717 5856 5306 5398 5874 5979 5698
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