

2.41118

*Western Kidd Resources Inc.*

Report of May, June 2008, Diamond Drilling,  
Drill Holes W-16 to W-19  
Meunier Property  
Loveland Township, NW Timmins Area

42A/12

A.W. Beecham  
26<sup>th</sup> March 2009

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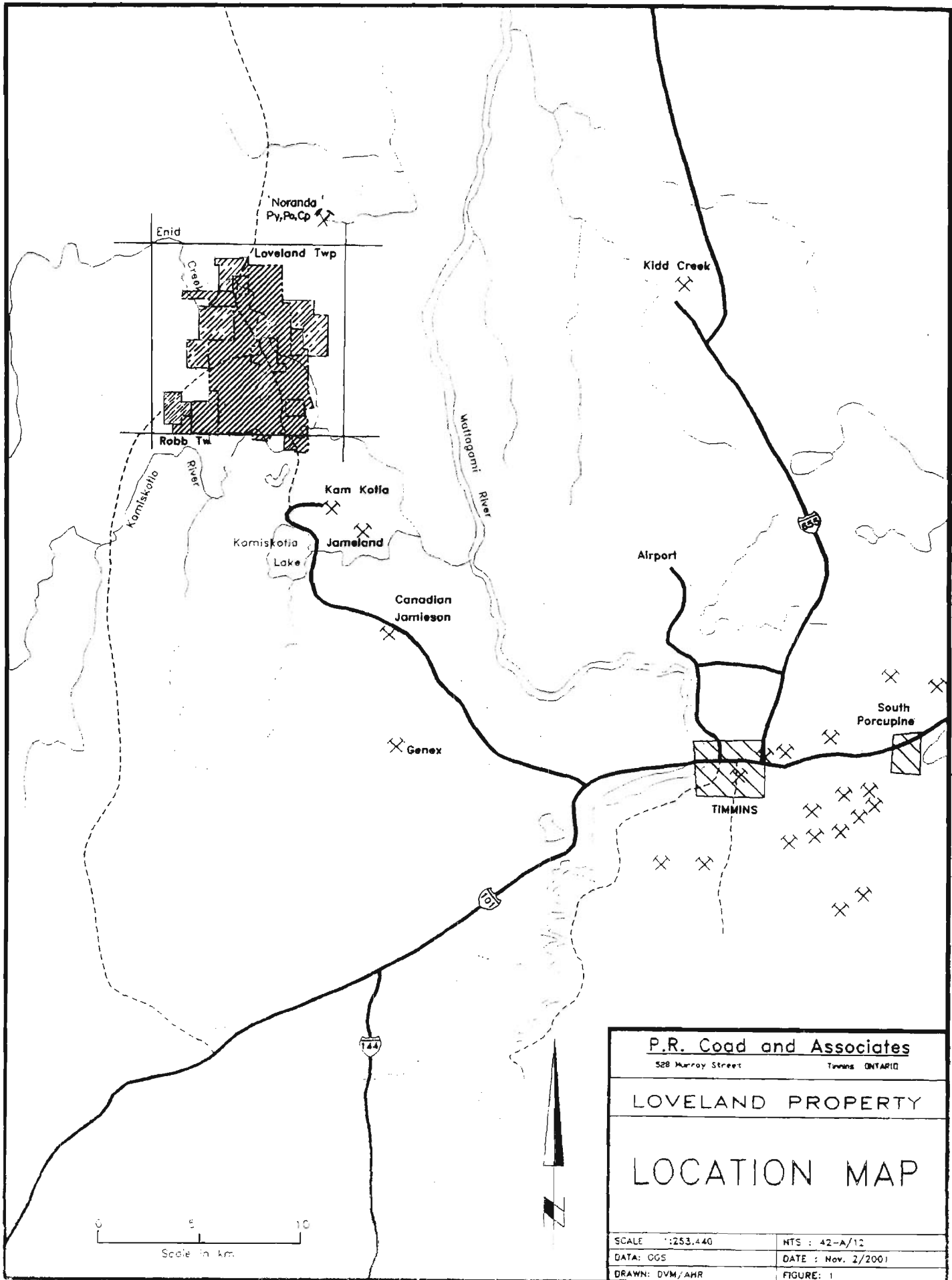
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Western Kidd Resources Inc.  
Report of Diamond Drilling,  
Drill Holes W-16 to W-19  
Meunier Property, Loveland Township, NW Timmins Area  
May, June 2008

**Introduction**

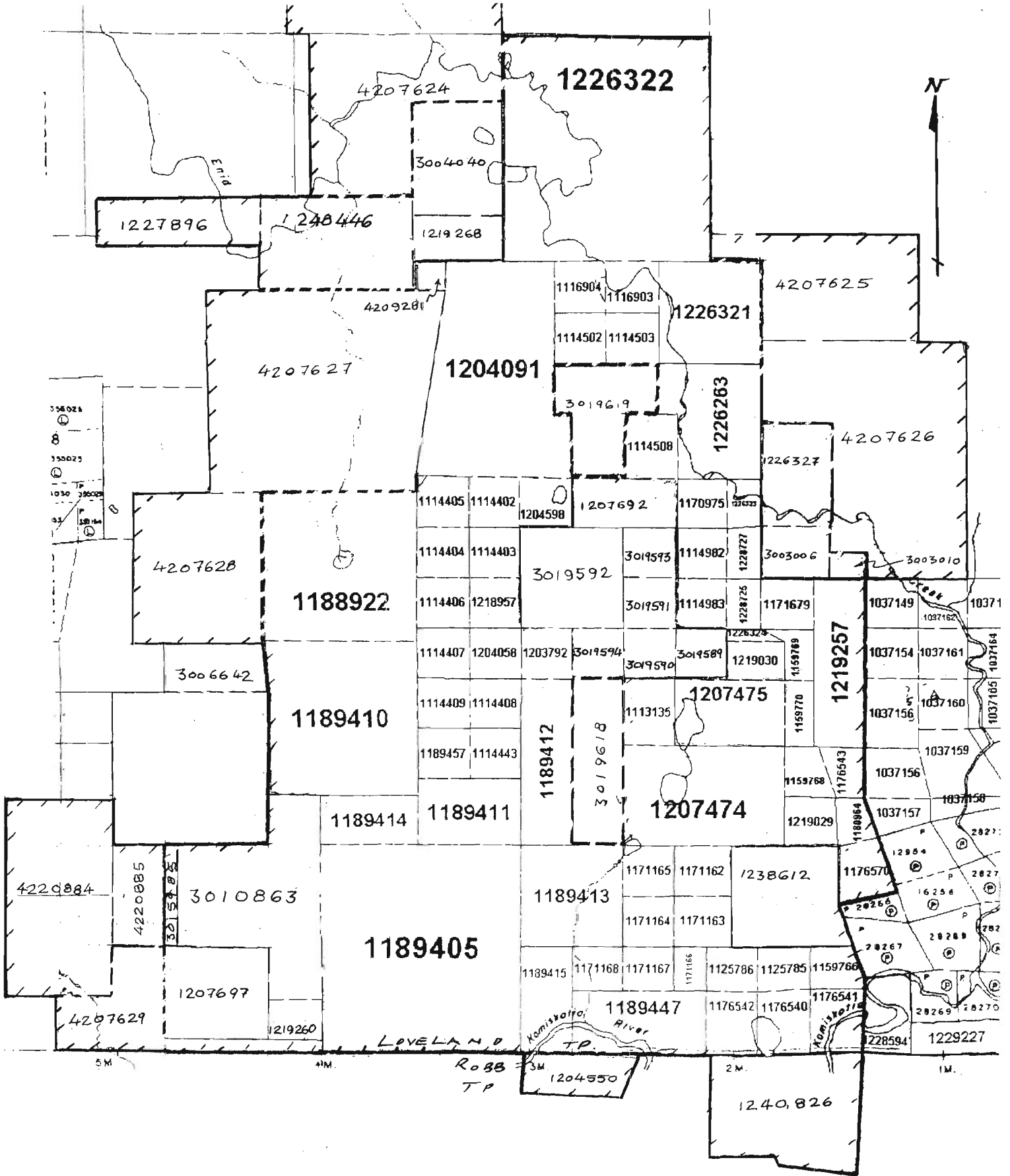
A Titan 24 survey was undertaken by Quantec Ltd. late in 2007. The survey covered 0.9km long strike length of the 'Eastern Contact' from L9900N to 10800N at 200m to 300m line spacing, and extending 2.4 km in an east-west direction. A drilling program was undertaken in May and June 2008 to test 2 main features, (1) a strong DCIP chargeability anomaly in apparent 'hangingwall' rocks located 400m east of the Eastern Contact and (2) a long, strong magneto-telluric resistivity low which at the surface coincided more or less with the Eastern Contact, but dipped steeply west, compared to volcanic lithology which dips steeply east. Target (1) the DCIP anomaly was tested with 2 holes, W-08-16 drilled from west to east and by W-08-17 drilled from east to west. Target (2) was tested by 2, relatively deep holes, W-08-18 drilled from west to east and W-08-18 drilled from east to west. The program totaled 2270m.

Area Geology: As described by Hathway et al, the area is underlain mainly by the (2719 to 2710 Ma) Kidd-Munro assemblage of volcanics. This assemblage hosts the Kidd Creek deposit to the east. The geology is described in more detail by, Burt and Coad and Harvey, and Beecham. The volcanics strike about NS, dip steeply east and face eastward. What is referred to as the 'Eastern Contact' consists of the interface between inter-layered felsic and mafic tholeiites volcanics to the west and mafic transitional to calc-alkaline volcanics to the east. Fine to medium grained mafic intrusives occur both in the footwall and in the hanging wall rocks (of this interface), but they are more abundant in the footwall rocks. The apparent stratigraphic top of the interlayered felsic/mafic unit is marked by concentrations of sulphides, (pyrite, pyrrhotite with minor sphalerite and chalcopyrite). A second mineralized horizon lies about 150m stratigraphically lower (to the west). These concentrations consist of disseminations and interstitial (within the matrix of felsic fragmentals) sulphides. As well, lean pyrrhotite with minor chalcopyrite and sphalerite 'stringer' zones are present. This volcanic interface, which appears favourable for VMS deposits, prior to this work had been traced by diamond drilling over a north-south strike length of 700m and to a vertical depth of about 400m.



|                                                                           |                    |
|---------------------------------------------------------------------------|--------------------|
| <b>P.R. Coad and Associates</b><br>528 Murray Street      Timmins ONTARIO |                    |
| <b>LOVELAND PROPERTY</b>                                                  |                    |
| <b>LOCATION MAP</b>                                                       |                    |
| SCALE : 1:253,440                                                         | NTS : 42-A/12      |
| DATA: OGS                                                                 | DATE : Nov. 2/2001 |
| DRAWN: DVM/AHR                                                            | FIGURE: 1          |

Revised by: A.W. Beecham    Jan. 2005  
 MAY 2006  
 Feb. 2009



**Western Kidd Resources Inc.**

**Meunier Property, Claim Map**

Loveland and Robb Twps  
NW Timmins Area, Ont.

Scale: 1:40,000 approx.      NTS 42A/12

Location and Access: The property lies within the City of Timmins, 35 km northwest of the centre of the city. Access is by the all-weather, well maintained Abitibi forestry road which runs north from Highway 576 at Kamiskotia Lake. The Abitibi road provides good access to drill holes W-16, 18 and 19. Drill hole W-17, however lies east of a high, outcrop ridge and was accessed via a secondary forestry road. This road branches from the Abitibi road at about kilometer 9 and runs southeastward.

Property Description: Data on the 6 claims on which the drilling was done, are listed below. The claims lie in Loveland (geographical) Township in the Porcupine Mining Division.

| Claim # | Units | Recording Date | Due Date     | Recorded Owner                              |
|---------|-------|----------------|--------------|---------------------------------------------|
| 1114983 | 1     | 6 July 1989    | 6 July 2011  | Western Kidd Resources Inc. client # 400642 |
| 1171679 | 1     | 9 Jan. 1991    | 9 Jan. 2010  | Western Kidd Resources Inc. client # 400642 |
| 1219030 | 1     | 3 Sept. 1996   | 3 Sept. 2009 | Western Kidd Resources Inc. client # 400642 |
| 1228725 | 1     | 13 Aug. 1998   | 13 Aug. 2009 | Western Kidd Resources Inc. client # 400642 |
| 3019589 | 1     | 21 July 2004   | 21 July 2009 | Western Kidd Resources Inc. client # 400642 |
| 3019591 | 1     | 21 July 2004   | 21 July 2010 | Western Kidd Resources Inc. client #400642  |

Previous Work: Table I, below, is modified after Coad and Harvey.

**Table I Previous Work, Western Kidd Property**

|               |                                    |                                                                                                                                                                                                                                                                                                                    |
|---------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1965, 1966    | Mespi Mines                        | SW part of present W.Kidd holdings: Ground magnetic and JEM survey, presumably following up airborne EM. (A.E.M. covered Loveland twp.) Drilled 4 diamond drill holes on EM conductor intersecting what referred to here as the Mespi horizon with Py, Po, and Zn values up to 4.8% over 0.73m;                    |
| 1966          | MacDonald Mines:                   | Geological mapping, Trenching and Geophysics, incl west side of 'Coad Hill'; (Assessment file S. Porcupine T-785)                                                                                                                                                                                                  |
| 1972          | Hollinger GM                       | Area in SW Loveland covered SW part of W. Kidd's present holdings and part of Cogitore's present holdings: Ground magnetics, HLEM, compilation of data; Also held other claim groups on which ground geophysics done; one drill hole (160m) along Loveland-Robb Twp line at south end of present W. Kidd property; |
| 1975          | Cominco Ltd:                       | Airborne EM survey over Loveland Twp and overburden drilling;                                                                                                                                                                                                                                                      |
| 1980, 1981    | Gulf Minerals                      | Extensive exploration programs incl airborne EM, ground magnetics; HLEM, IP Surveys, overburden drilling; 7 diamond drill holes totaling 1971.8m;                                                                                                                                                                  |
| 1983-1984     | Kidd Creek Mines                   | Held 9 claims in SW Loveland covering Mespi horizon: Geological mapping, ground EM and magnetics; located one of old Mespi dh casings;                                                                                                                                                                             |
| 1988          | Ont. Geol. Survey                  | Geotem Survey (AEM) over Timmins area incl Loveland Twp;                                                                                                                                                                                                                                                           |
| 1988-1996     | Falconbridge Ltd.                  | Holdings included present Cogitore ground and SW part of W. Kidd holdings; Tested Mespi horizon with 6 drill holes incl. one drill hole to 422m to test horizon to depth. Lithochemistry on core (not in public record);                                                                                           |
| 1990          | D. Meunier                         | Borehole UTEM survey on Gulf Minerals hole, R81-A-3                                                                                                                                                                                                                                                                |
| 1990          | D. Meunier                         | Gulf diamond drill hole R81-A-3 deepened 436.8 to 583.1m; drilled hole LDM 90-2 to 398.1m;                                                                                                                                                                                                                         |
| 1991          | D. Meunier                         | Geological mapping of part of property by R.P. Bowen                                                                                                                                                                                                                                                               |
| 1992          | D. Meunier                         | UTEM on 6 km. of grid over 'eastern contact' area; Lamontagne Geophysics Ltd                                                                                                                                                                                                                                       |
| 1990's        | Placer-Dome                        | Ground magnetics and IP on N-S oriented grid in SW part of area; Property under option from D. Meunier;                                                                                                                                                                                                            |
| 1994, 1996    | D. Meunier                         | Various ground magnetic surveys, VLF-EM and some IP surveys on a WSW-ENE trending metric grid, work by Excaliber International Consultants; (T-4562);                                                                                                                                                              |
| 1997          | Atna Resources                     | 7 diamond drill holes totaling 2094.0m in southern part of property; (While property under option from D. Meunier)                                                                                                                                                                                                 |
| 1997          | D. Meunier                         | Borehole TM survey on dh. LDM97-3, by Quantec Consulting Inc.                                                                                                                                                                                                                                                      |
| 1997          | Ryan Exploration                   | Ground magnetic survey on NE part of property;                                                                                                                                                                                                                                                                     |
| 1998          | Atna Resources                     | 4 diamond drill holes, totaling 834.83m in SW part of property; Claims 1189405; 1189411; Included considerable amount of lithochemistry;                                                                                                                                                                           |
| 1998          | Prospectors Alliance Inc.          | Horizontal Loop EM on claims within centre of Meunier block (current claims 3019589 - 3019594);                                                                                                                                                                                                                    |
| 1999          | D. Meunier                         | 2 diamond drill holes, LDM-99-01, and LDM-99-02, totaling 817m;                                                                                                                                                                                                                                                    |
| May 2000      | Explorers Alliance                 | 1 diamond drill hole ELS00-1; drilled to 252 m drilled on current claim 3019594;                                                                                                                                                                                                                                   |
| 2000          | D. Meunier                         | Ground magnetics and VLF survey, on 'engineering grid' (eastern contact area); (Assess't file: T-4538)                                                                                                                                                                                                             |
| 2000          | D. Meunier                         | Dighem (helicopter AEM) survey over central portion of property;                                                                                                                                                                                                                                                   |
| 2001, 2002    | D. Meunier                         | 2 drill holes, eastern contact area total 311m                                                                                                                                                                                                                                                                     |
| 2003          | Ont. Geol. Survey                  | MEGATEM II Survey of Kamiskotia Area covered claims;                                                                                                                                                                                                                                                               |
| Mar, 2004     | Western Kidd Res                   | Horizontal Loop EM. Lines 9100N & 9300N, 'Eastern Contact' area;                                                                                                                                                                                                                                                   |
| 2004          | Western Kidd Res                   | Geological mapping, 'eastern contact' area;                                                                                                                                                                                                                                                                        |
| 2003, 2004    | Western Kidd Res                   | Diamond drilling 8 holes for 2269m, eastern contact area;                                                                                                                                                                                                                                                          |
| July, 2004,   | Western Kidd Res                   | Gradient IP Survey, 'Eastern Contact' area from line 10200N to 11000N;                                                                                                                                                                                                                                             |
| 2004, 2005    | Western Kidd Res                   | MMI survey over part of 'Eastern Contact'                                                                                                                                                                                                                                                                          |
| 2004-2006     | INMET/Woodruff Capital/Cogitore Rs | Area in SW Loveland staked in Oct 2007; Line cutting, pulse EM, ground magnetics, data compil'n &, lithochemical evaluation of area by Benoit Lafrance;                                                                                                                                                            |
| 2005          | Western Kidd Res                   | IP, magnetic surveys Area A, Area B, Maggie's Lake area; Magnetic survey SW Loveland area; (area of dh W-07-15)                                                                                                                                                                                                    |
| 2006          | Western Kidd Res                   | Diamond drilling 5 new holes and deepening previous hole; 1055.5m; Tested IP anomalies in Area B west of Abitibi Road;                                                                                                                                                                                             |
| August 2006   | Western Kidd Res                   | Diamond drilling 1 hole tested IP anomaly west of Maggie's Lk; 179.0m                                                                                                                                                                                                                                              |
| Feb, Mar 2007 | Western Kidd Res.                  | Diamond drilling, 1 hole in SW drilled to test gently east dipping Mespi Horizon; 618m                                                                                                                                                                                                                             |
| 2007          | Western Kidd Res.                  | Titan 24 Survey, MT(magnetotelluric resistivity) & DCIP by Quantec tested 0.9km strike length by 2.4km width block on the 'Eastern Contact';                                                                                                                                                                       |

**Table II**  
**Diamond Drill Hole Statistics and Collar Data**

| DH<br># | UTM Coord, NAD27 |         | Local Grid |        | Azim      | Dip   | Length<br>m | Target          |  |
|---------|------------------|---------|------------|--------|-----------|-------|-------------|-----------------|--|
|         | East             | North   | North      | East   |           |       |             |                 |  |
| W-08-16 | 452898           | 5389227 | 10196.8    | 5110.5 | grid east | 45.6° | 408.0       | IP Anomaly      |  |
| W-08-17 | 453267           | 5389425 | 10310      | 5515   | 306°      | 45°   | 396.0       | IP Anomaly      |  |
| W-08-18 | 452359           | 5389315 | 10400      | 4605.0 | grid east | 50°   | 553.5       | MT Anomaly      |  |
| W-08-19 | 452838           | 5388909 | 9898.9     | 4985.1 | grid west | 67°   | 912.0       | deep MT Anomaly |  |
| Total   |                  |         |            |        |           |       | 2269.5 m    |                 |  |

### Results

The Titan 24 survey of December 2007 by Quantec Geoscience, outlined a strong DC IP chargeability anomaly, located well east of the 'Eastern Contact' (as shown on the Geology and Diamond Drill Plan). The strongest parts, occur on L10200N, 450m east of the Abitibi Rd and on L10400N about 375m east of the Abitibi Road. Narrower, phase IP chargeability anomalies (Lambert) coincide with western edge of the Titan IP anomaly. Even though abundant outcrop in the area of the anomaly indicated an entirely unmineralized sequence of mafic flows, and hence an unfavourable environment for VMS deposits, because of the strength of Quantec's recommendation, the chargeability anomaly was tested with 2 holes. W-08-16 was drilled from west to east on section 10200N and a 'scissors' hole, W-08-17 was drilled from east to west on section 10300N.

A second target, a linear, magneto-telluric (resistivity low) (MT) anomaly was interpreted approximately coincident with the Eastern Contact and the Abitibi Road. The interpretation was that the anomaly dipped west, apparently cross-cutting the steeply east dipping volcanic sequence. This was also recommended as a drill target. One hole, W-08-18 tested the anomaly on section 10400N at a vertical depth of about 300m. A second hole, W-08-19 tested the anomaly at the south part of the area surveyed. At this point the MT anomaly appeared to dip steeply and could be tested by a west-inclined hole that would also provide a good, stratigraphic cross-section. However, in order to reach the interpreted strong part of the anomaly it was necessary to cut the anomaly at vertical depth of more than 600m.

W-08-16: (Section 10200N;5110.5E) Only mafic volcanics were encountered. These are mainly transitional andesites to basalts with minor tholeiitic basalts near the end of the hole. No strong alteration is indicated by the whole rock analyses. No anomalous sulphide concentrations were seen that could explain the chargeability. One minor concentration of chalcopyrite occurs in a fine breccia at 106.7m. This analyzed 423ppm Cu over 0.5m.

W-08-17: (Section 10312N; 5510E) A sequence of mafic volcanics with transitional affinities throughout occurs in W-08-17. The hole collared in a late diabase dyke and a mafic intrusive was cut in the middle of the hole. At 377m a second small mafic intrusive appears to mark a fault, possibly the North Valley Fault. Some weak to moderate chlorite alteration coincides with elevated K<sub>2</sub>O levels at 296m and 349m. No anomalous sulphides were encountered and there is no obvious explanation of the IP anomaly.



W-08-18: (Section 10400N; 4605E) This hole was drilled to test the interpreted, strong MT resistivity low which, as noted above, parallels the Abitibi Road and dips west at about 60°. On section 10400N, the anomaly was interpreted to pass about 100m below and parallel to drill hole W-04-03. As noted above, W-08-18 was laid out on Section 10400N to test this feature at a vertical depth of 300m. It was drilled grid east, i.e. down dip of the volcanics. The upper part of the hole cut mainly fine grained gabbro. From 373 to 516, through the interpreted MT anomaly, mainly quartz-phyric felsic volcanics with mafic flows were cored. Only minor sulphides, mainly pyrite and pyrrhotite were found: 433 to 445, 0.5 to 1% Py, Po and tr Cp; 493 to 493.5: 3% to 4% Po with trace Cp. Minor Cu, (158ppm), and Zn, (1283 ppm) occur in pyrrhotite-pyrite veinlets from 64.3 to 65.2m. Isolated, anomalous Zn values are also present. There is, however, considerably less mineralization in this hole than encountered in W-04-03.

Correlation of the felsic units in W-08-18 with those in W-04-03 indicates a 65° east dip. This substantiates a previously uncertain interpretation.

The mineralization encountered appears insufficient to account for the MT anomaly. After the drilling, in August 2009, Quantec re-interpreted the MT anomalies, making adjustments for the fact that the strike of the rocks is not at 90° to the surveyed line. The result was a much more restricted anomaly lying well below W-08-18 and 'in front of' W-04-03. (At the time of writing W-04-03 has been extended to test this revised interpretation. Again, no significant sulphides, or other explanation of the apparent 'anomaly' was found.)

W-08-19: (Section 9900N; 4985E): As noted above, the primary purpose of this hole was a deep test of the MT anomaly. W-08-19, from 630m to 880m passed through the interpreted position of a strong MT resistivity low. However, there are no significant concentrations of sulphides or other chargeable material to explain the anomaly. As noted above, Quantec Geosciences re-interpreted the MT anomaly, taking into account the fact that the volcanics do not strike exactly at 90° to the survey line. With this consideration, the previously interpreted anomaly on section 9900N disappears completely.

This hole cored a good cross section of volcanics. The top of the rhyolite pile appears to be at 295m. However, there is a thin exhalite at 267.3m and immediately above this, the volcanics have intermediate compositions and are moderately Na depleted. These rocks, with elevated SiO<sub>2</sub> levels are identified as intermediate rather than altered mafics, because of their characteristically low TiO<sub>2</sub> levels and high Zr and Y levels. As well, in sampling from east to west, there is a shift in Zr/Y ratios from transitional levels to tholeiitic levels, between 232m and 250m and the position of the 'Eastern Contact' should probably be taken at the top of the 'dacitic' breccia unit at 245.35m.

The sedimentary section from 292.7 to 294.9 (argillite/siltstone, a little graphitic argillite, mafic volcanic fragments in an argillite matrix) which contains up to 8% pyrite/pyrrhotite, seems to mark the major time break in volcanism. This is the stratigraphic level at which massive sulphides would most likely have accumulated.

The section from 294m to 423m is mainly quartz-phyric tuffs and breccias with some mafic flows. From 423 to 817 the section is mainly gabbros with a large late diabase dyke. Below this mainly quartz-phyric rhyolite flows were encountered. The general stratigraphy of the felsic volcanics is similar to that seen farther north where massive flow or dome rhyolite is overlain by tuffs and breccias of the same composition.

Although felsic volcanics in W-08-19 are relatively dark and appeared only weakly altered, there are sections with anomalous Zn and Cu, with restricted zones of Na depletion and isolated K enrichment. Chalcopyrite blebs in quartz breccia in fine grained gabbro assayed 922 ppm Cu from 22.2 to 23.9m. At the Eastern Contact, dacite breccias and exhalite from 250.4 to 268.1 carry anomalous Zn levels up to 300ppm and are Na depleted. Anomalous Cu occurs in mafic volcanics at 337m. From 374.7 to 494 anomalous Zn, from 100 to 200 ppm plus isolated

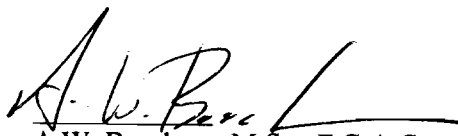
anomalous Cu and isolated Na depletion, occurs here and there in felsic tuffs, mafic flows and in thin fine grained gabbros. From 506.7 to 512.2 fine grained, amygdaloidal gabbros carry spotty Cu levels from 226 to 1256 ppm and isolated anomalous Zn up to 431 ppm. Near the end of the hole in felsic flows, anomalous Zn (151 ppm) with Na depletion and K enrichment occurs from 880 to 881m and minor chalcopyrite, for which there are no assays, occurs from 909.5 to 911.9m.

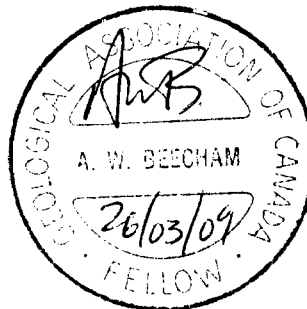
### Discussion and Recommendations

No significant mineralization or strong hydrothermal alteration was found either with the strong IP anomalies tested by W-16 and W-17 or with the MT resistivity anomalies tested by W-18 and W-19 and one is led to conclude that the perceived anomalies do not represent any physical features of the rocks and that the anomalies are likely spurious. It is strongly recommended that no more testing of anomalies from this Titan survey be done.

Minor Zn and Cu mineralization occurs in both W-08-18 and W-08-19. As well, the lithochemistry defines some relatively narrow sections of moderate Na depletion and isolated K enrichment. However, both metal concentrations and alteration levels are similar to what has been encountered in the previously drilled, 1.3 km strike length of the Eastern Contact. The general evaluation is that this relatively weak mineralization and alteration is best developed in the middle of this strike length, around drill holes LDM-90-02 and W-04-03. The results of W-08-19, in particular, do not suggest any build up of mineralization at the south end the area tested.

Further testing of the Eastern Contact, both to the north and south of this area is recommended. However, considering the amount of geophysics and overburden drilling done to date, it appears that wide-spaced diamond drilling may be the only useful exploration method.

  
A.W. Beecham, M.Sc. F.G.A.C.  
Haileybury, Ontario,  
26<sup>th</sup> March 2009



## References

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2006                        Geological Setting of Volcanogenic Massive Sulphide Mineralization in  
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- Lambert, Gérard        Report on Induced Polarization Surveys, Loveland Project, Areas "A" &  
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Jan. 2008                Interpretation Summary; by Quantec Geoscience Ltd.

**Appendix I:**

Diamond Drill Hole Logs:

W-06-16

W-06-17

W-06-18

W-06-19

Core Storage Location:

Knight Hawk Timber Company Site  
Stringer Road, Western Shaw Township  
South of South Porcupine

**Western Kidd Resources Inc.**

**Drill Log**

DH. W-08-16

Loveland Township

| DH#     | Northg  | Eastg  | Elev | Az        | Dip   | UTM Base | UTME <sup>(2)</sup> | UTM N <sup>(2)</sup> | UTM E <sup>(4)</sup> | Length | Claim #s | Drilled By        | Logged By    |
|---------|---------|--------|------|-----------|-------|----------|---------------------|----------------------|----------------------|--------|----------|-------------------|--------------|
| W-08-16 | 10196.8 | 5110.5 |      | 77.5°     | 45.6° | NAD 27   | 452898              | 5389227              | 315.2                | 408.0  | 1228725  | Forage Lafreniere | A.W. Beecham |
|         |         |        |      | grid East |       | NAD83    | 452915              | 5389446              |                      |        | 1171679  |                   |              |

Down Hole Surveys

| Depth  | Az. Mag | Az. Corr | Dip  | Remarks |
|--------|---------|----------|------|---------|
| collar | 88      | 77.5     | 50.0 | layout  |
| 51     | 88.9    | 78.4     | 45.6 | Flexit  |
| 102    | 89.5    | 79.0     | 46.1 | Flexit  |
| 153    | 91.4    | 80.9     | 45.6 | Flexit  |
| 204    | 91.7    | 81.2     | 45.4 | Flexit  |
| 255    | 93.2    | 82.7     | 45.1 | Flexit  |
| 306    | 91.9    | 81.4     | 45.4 | Flexit  |
| 357    | 94.7    | 84.2     | 45.1 | Flexit  |
| 408    | 95.0    | 84.5     | 45.0 | Flexit  |

Dates: Started 05-May-08  
Completed 09-May-08

Objective:  
Test Titan T-1" IP Anomaly;

Samples: 3551 3566

Permanent storage:  
Nighthawk Timber depot, Stringer Road  
Shaw Township, (south of S.Porcupine);

Notes:

- (1) Collar elevation taken from corrected GPS survey by D. Meunier
- (2) UTM coord from WAAS corrected Magellan Meridian +/- 3m  
Northing, Easting from grid pickets;

Contents:

- Collar sheet 1. pg
- Lithology 1pg to 4
- Assay Sheet 1 pg
- Lithochem. 1 pg
- Geological Legend

**Western Kidd Resources Inc.  
Loveland Twp**

**Drill Hole Log**

W-08-16

---

**Summary Log:**

|       |       |                               |
|-------|-------|-------------------------------|
| 0.0   | 13.5  | Casing                        |
| 13.5  | 386.2 | Mafic Flows;                  |
| 386.2 | 390.3 | Fine Grained Mafic Intrusive; |
| 390.3 | 408.0 | Mafic Flows;                  |

**Remarks:** No significant mineralization to explain the strong Titan, DCIP anomaly; Anomaly coincides with high outcrop area;

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A.W. Beecham

22-May-08

| From   | To     | Symbol  | Description                                                                                                                                                                                                                                                                                                                                         | Structure                                                                                                              | CA | Alteration, Veins                                                                                                                                                        | Alt Sym | Mineralization                                                                                                                                            |
|--------|--------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.00   | 13.50  | CS      | <u>CASING</u>                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |    |                                                                                                                                                                          |         |                                                                                                                                                           |
| 13.50  | 21.60  | 2g,a    | <u>MASSIVE, AMYGULAR MAFIC FLOW</u> : Med, dull grey, fine, even-grained; Texture not apparent; H=5.5; Up to 5% 0.5 to 3mm qtz amygdules; Looks andesitic; Non magnetic;                                                                                                                                                                            | massive, weakly fractured;                                                                                             |    | relatively unaltered; possibly weakly bleached; sparse qtz +/-calc veinlets;                                                                                             |         | Isolated tr Py in calc. veinlets;                                                                                                                         |
| 21.60  | 28.20  | 2a/ 5f  | <u>MASSIVE MAFIC FLOW OR INTRUSIVE?</u> : Med grey, med fine grained up to 0.5mm; mostly even grained with <0.5 % 1mm fsp phenocrysts; Same colour and alteration as definite flow material, possibly massive core of flow??                                                                                                                        | Contacts gradual chill?; upper obscured by broken core; lower at 35'                                                   | 35 | As above;                                                                                                                                                                |         | isolated tr Py with qtz and qtz-calc veinlets;                                                                                                            |
| 28.20  | 56.50  | 2f,g    | <u>AMYGULAR, +/- FSP-PHYRIC MAFIC FLOW</u> : As above except short sections and 'buns' of fsp-pyric material similar to that seen in upper part of LDM-99-02; Amygdules, 1 to 5% for 1mm to 4mm; Short sections with flow banding; Isolated flow breccia eg. 37.7m;                                                                                 | 28.2 to 33.5: sections of broken core; 28.3: minor fault/shear with a little gouge at 15';                             |    | 28.2 to 28.4: banded, schistose, qtz-calcite-chl vein at 15'; 32: blebby qtz over 0.1m; weak, pervasive bleaching; minor sil'n-bleaching around amygdules;               |         | Isolated tr Py as films on fractures & diss                                                                                                               |
| 56.50  | 86.30  | 2f,a    | <u>MASSIVE FSP-PHYRIC MAFIC FLOW</u> : Med to lt grey, 30% 1mm fsp with finer 'matrix'; radiating fsp. Looks porphyritic, but no aphanitic material: fsp-rich; H= 5.5; Weakly amygular at top contact.                                                                                                                                              | Upper contact gradational; Unit is massive core of flow;                                                               |    | 67.4 to 73.0 Med to dark green with pervasive calcite, minor calc veinlets and a little dk chl.                                                                          |         |                                                                                                                                                           |
| 86.30  | 90.30  | sh,alt2 | <u>SHEARED, ALTERED MAFIC FLOW</u> : Dk green, fg, even grained; H=4.5                                                                                                                                                                                                                                                                              | Strong schistosity at 20'; 86.5: 1 to 2 cm gouge at 20' marks small fault.                                             | 20 | Strong pervasive calcite and fine, dark chl.                                                                                                                             | ca, chl |                                                                                                                                                           |
| 90.30  | 101.60 | 2g      | <u>AMYGULAR MAFIC FLOW</u> : Similar to unit 13.5 to 21.6m; 1 to 5% qtz amygdules from <0.5mm to 3mm                                                                                                                                                                                                                                                | massive or with indistinct flow banding at 45';                                                                        |    | 1 to 2% 5 to 8 white fsp-qtz spots, some surrounding amygdules;                                                                                                          |         | tr Py here and there in hairline to mm calcite veinlets;                                                                                                  |
| 101.60 | 113.80 | 2a      | <u>MASSIVE, AMYGULAR MAFIC FLOW</u> : Med grey mfg with ophitic texture or fg; H=5.5 to 6.0: Sparse amygdules and flow bands? 106.6 to 106.9: fine angular bx;                                                                                                                                                                                      | Upper contact gradational; Unit is massive core of flow;                                                               |    | Minor white qv +/-calcite 2 cm vein at 109; A little interstitial qtz and carb in thin bx at 106.6 to 109m                                                               |         | 102.2: Isolated tr Cp with Py in hairline calc veinlet: 106.7: a few blebs Cp with Py up to 6mm; 3% / 0.1m in thin bx ; Isolated tr Py as diss and in qv; |
| 113.80 | 141.70 | 2b, a   | <u>MASSIVE TO BRECCIATED MAFIC FLOW</u> : As above; >75% relatively massive flow with short sections, indistinct, primary bx; Sections with flow bands; 2 to 3% qtz amygd from <0.5 to 3mm: Remarks: 134.55 to 135.05: Dark green, schistose, chloritic section with 10% blebs of calcite--altered shear or argillite interflow; (none conductive;) | Short bx sections with 0.5m bx at 117.5 possibly marking flow ct; Short sections with flow bands; 135: shearing at 20' | 15 | White spotting here and there-qtz wh fsp or agate-like; 134.55 to 135.05: strong dk chl + calc. Minor qtz veinlets and a little apparent silicification along fractures; |         | rare speck of fine Py                                                                                                                                     |

| From   | To     | Symbol | Description                                                                                                                                                                                                        | Structure                                                                                                                                                                       | CA | Alteration, Veins                                                                                                                                       | Alt Sym | Mineralization                                        |
|--------|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------|
| 141.70 | 143.20 | sh2    | <u>SHEARED, ALTERED MAFIC VOLCANIC</u> : As above,                                                                                                                                                                 | Moderate shearing at 30°;<br>142.3: minor gouge and broken core;                                                                                                                | 30 | 6% calcite partings and a little chl along schistosity;                                                                                                 | ca; chl |                                                       |
| 143.20 | 148.80 | 2g     | <u>MASSIVE, AMYGULAR FLOW</u> : As above: fg to mfg with ophitic texture;                                                                                                                                          |                                                                                                                                                                                 |    |                                                                                                                                                         |         |                                                       |
| 148.80 | 151.20 | 2d     | <u>PILLOWED(?) MAFIC FLOW</u> : Med dull grey, fg to vfg; Pillows marked by thin chl selvages and bleaching;                                                                                                       | Some incipient, angular bx                                                                                                                                                      |    | Minor chl, bleaching                                                                                                                                    |         |                                                       |
| 151.20 | 178.00 | 2a     | <u>MASSIVE MAFIC FLOW</u> : Med/light grey, mfg with good ophitic texture; Uniform except for a few mm lt grey flow(?) bands:: H=5.5;                                                                              | Upper contact gradational with amygdules which decrease downward; Lower ct gradational and marked by 15 cm bx; Some flow banding; Unit is massive core of flow;                 |    | 151.2 to 154: 3mm lt grey spotting-bleaching around amygdules; Weak pervasive bleaching; 175 to 178: 3% calcite veinlets and med green due to fine chl. | bl      | tr Py diss'd and with calcite veins from 175 to 178m; |
| 178.00 | 184.90 | 2d     | <u>PILLOWED MAFIC FLOW</u> : As above, , 1488 to 151.2; Sections of fine angular bx;                                                                                                                               | selvages at 15 to 130°; Prominent selvage and some weak schistosity at 20°                                                                                                      | 20 | 178 to 179: 4% calcite veinlets; a little chl in selvages and some weak pervasive chl.                                                                  | ca, chl | tr Py as discontinuous fine diss'n;                   |
| 184.00 | 199.90 | 2g     | <u>MASSIVE AMYGULAR MAFIC FLOW</u> : As above; fine ophitic texture; 1 to 3% qtz amygdules;                                                                                                                        | Minor sections of incipient bx;                                                                                                                                                 |    | Weakly bleached throughout                                                                                                                              | bl      | tr Py as discontinuous fine diss'n;                   |
| 199.00 | 203.80 | fr2    | <u>FRACTURED, ALTERED MAFIC VOLCANIC</u> : Dark grey-green, fine, even grained; H=5;<br>Remarks: 202 to 202.3: chloritic section probably sheared flow rock rather than interflow argillite;                       | Strong fracturing with calcite veining at 20 to 30 and at 130 to 150°; Sections with schistosity at 20 to 30; 201.1 to 201.3: Strong shearing with mm gouge seams at 20 to 30°; | 25 | 5% white calcite veinlets; 203.7:: 2 cm calc-jasperite vein; Discontinuous, pervasive fine chlorite;                                                    | Ca; chl | tr Py with chl at 202.2                               |
| 203.80 | 214.80 | 2a     | <u>MASSIVE MAFIC FLOW</u> : As above; Amygular sections in lower part;                                                                                                                                             |                                                                                                                                                                                 |    | weakly bleached ;                                                                                                                                       |         | Isolated tr diss Py;                                  |
| 214.80 | 226.50 | 2d     | <u>PILLOWED MAFIC FLOW</u> : Med grey, f to vfg, even; weakly amygular sections: Pillows with thin selvages separating lt and dark grey material; 221.5 to 223.2: sections with scoria (frothy) and hyaloclastite; |                                                                                                                                                                                 |    | sparse 5 to 10 mm white fsp-qtz spots (primary?); Weak selective bleaching;                                                                             |         | Isolated tr diss Py;                                  |
| 226.50 | 239.50 | 2a     | <u>MASSIVE MAFIC FLOW</u> : As above, fine ophitic texture; 1 to 2 % fine amygdules; a few stylolite-like flow bands; Minor bx near top                                                                            | Contacts gradational                                                                                                                                                            |    | Very minor sil of flow bands and bx matrix;                                                                                                             |         |                                                       |



| From   | To     | Symbol  | Description                                                                                                                                                                                                                                                                                                         | Structure                                                                                                                                       | CA      | Alteration, Veins                                                                                                                                              | Alt Sym | Mineralization                                                         |
|--------|--------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------|
| 239.50 | 252.70 | 2g      | <u>AMYGULAR, MAFIC FLOW</u> : Med grey, f.g. some ophitic texture; 2 to 4%, 0.5 to 10mm qtz amygdules; 245m: 0.3m fine angular bx; 251.4 .02m (+) block of slightly coarser grained andesite; Flow bands here and there;                                                                                            | Contacts gradational & arbitrary;                                                                                                               |         | 1 to 2% white fsp +/-qtz alteration spots or large amygdules; Minor mm qtz- calcite veinlets;                                                                  |         | 242.8 to 244: Isolated tr diss Py; 246.8: tr Cp in mm, qtz-calc. vein; |
| 252.70 | 255.35 | alt, 2b | <u>ALTERED, SHEARED MAFIC VOLCANIC BX</u> : Deformed flow(?) bx with fragments to 0.1m; Some remnant ophitic texture; H= 4.5 to 5;                                                                                                                                                                                  | Strong schistosity at 25°; 254.5: 1 cm gouge along schistosity; Minor fault; Minor broken core; Flow contact (?) at end of unit;                | 25      | 8% calc partings; 255: 2cm qtz-calc minor muscovite with tr Py; Strong pervasive dk green chl;                                                                 | ca; chl | tr Py with qtz-calc at 255m                                            |
| 255.35 | 275.10 | 2f,a    | <u>MASSIVE FSP-PHYRIC MAFIC FLOW</u> : Med to lt grey; 15%, 0.5 to 1%, anhedral fsp with finer matrix (not aphanitic); < 1% 0.5mm qtz amygdules;                                                                                                                                                                    | Contacts marked by chl'ic shears, Very massive; 270 to 272.2: chl'ic shear with a little gouge, possibly a little graphite, but non-conductive; |         | Weakly bleached: 270 to 270.2: Chl shear at 40° with 40 % calc, tr Py; 274.6 to 275.1: wide chl selvage along 1 to 2 cm. calcite vein with hairline seam of Py |         | tr Py; See alteration;                                                 |
| 275.10 | 277.50 | 2g      | <u>AMYGULAR MAFIC FLOW</u> : As above; Even grained, 4% amygdules;                                                                                                                                                                                                                                                  | Contact with 'next' unit abrupt;                                                                                                                |         | weak bleaching;                                                                                                                                                |         | isolated tr Py                                                         |
| 277.50 | 294.30 | 2b      | <u>MAFIC VOLCANIC BRECCIA</u> : Med grey-green, mottled, 5 to >15cm rounded to ragged fragments, close-packed or with lava matrix and sections of flow-banded material; Fragments mainly fg flow rock; 277.5 to 292.5: Fragments of massive fg mafic fsp-phyric material; 292 to 293.5: flow bands or pillowed ribs | Some structure, clast alignment, flow bands, broken pillows at 035 to 150°; No apparent deformation; Grades 'downward' into pillowed flow;      | 35, 150 | Minor white fsp-qtz spotting; Very minor bleaching/sil'n in incipient bx; 274.8: 2 cm calc-chl-4 % Py vein with at 10°;                                        |         | 274.8 & 277.5 to 279.5 tr Py diss and in mm calc-chl veinlets;         |
| 294.30 | 322.40 | 2d      | <u>PILLOWED MAFIC FLOW</u> : As above; Fine even grained; Selvages spaced from 15 to 20 cm up to 2m; marked by minor chl, a little bleaching, some fine bx (hyaloclastite?) and pillow ribs; 1 to 2% fine amygdules                                                                                                 | No noticeable deformation even of pillow selvages; Lower contact abrupt, probably a flow contact (between aphyric and fsp-phyric flows)         |         | Slightly mottled from bleaching; Minor light grey sil'n (or sil/carb) in incipient bx; Very minor chl in pillow selvages; Minor white fsp-qtz spots;           |         | Isolated tr diss Py;                                                   |
| 322.40 | 333.05 | 2f,b    | <u>MAFIC, FSP-PHYRIC FLOW BX</u> : Med grey, as above; up to 15% 0.5 to 2mm wispy, anhedral white fsp in fg matrix; Sections indistinct bx with fragments to > 15 cm; sparse shore sections with flow bands;                                                                                                        | Probably flow contacts at top and bottom; Upper ct at 70°; Lower ct at 55°; Relatively few fractures;                                           | 70, 55, | Very minor chl in matrix here and there; minor sil'n                                                                                                           |         |                                                                        |

| From   | To     | Symbol | Description                                                                                                                                                                                                       | Structure                                                                                                                                                                            | CA  | Alteration, Veins                                                                                                                                                                                                                                                                                                            | Alt Sym  | Mineralization                                                                                               |
|--------|--------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------|
| 333.05 | 367.40 | 2g     | <u>AMYGULAR MAFIC FLOW</u> : Med grey, f.g. 2 to 4%, 0.5 to 3mm qtz amygdules; Isolated amygdules . 10mm with qtz and calcite; 339.3: flow bands and lava contact at 25°; Isolated bx with sil'd matrix eg. 344m; | Core solid with few fractures;                                                                                                                                                       |     | Relatively fresh and unaltered, except minor bleaching/sil'n;                                                                                                                                                                                                                                                                |          | Isolated tr Py;                                                                                              |
| 367.40 | 381.50 | 2a     | <u>MASSIVE MAFIC FLOW</u> : As above; Few flow features; 370.8371.5: Pillow-like banding; 372.2 to 372.8: bx and possible pillow banding; A few sections with amygdules <0.5mm;                                   | Contacts arbitrary and gradational; above and below part of same flow;                                                                                                               |     | 373.5: Isolated cm pod qtz and pale prismatic epidote??                                                                                                                                                                                                                                                                      |          |                                                                                                              |
| 381.50 | 386.20 | 2g     | <u>AMYGULAR MAFIC FLOW</u> : As above; 383.1: isolated, pillow selvages;                                                                                                                                          |                                                                                                                                                                                      |     | Relatively unaltered;                                                                                                                                                                                                                                                                                                        |          | Isolated tr Py;                                                                                              |
| 386.20 | 390.30 | 5f     | <u>FG MAFIC INTRUSIVE (Fault Zone?)</u> Dark grey-green; Modified ophitic/diabasic texture: H=5; Fg, about 0.5mm;                                                                                                 | Contacts marked by chl-calcite shears at 20° to 30°, incl a little gouge at 386.3m; Massive and dyke-like; Chlling toward contacts, but ct's obliterated by shearing and alteration; | 25° | Minor grey calc and qtz-calc veinlets with tr Py throughout; 382.2 to 382.6: Chl'ic schist with 20% calcite partings, minor pale epidote and 0.5% diss Py; 390.05 to 390.3:Chl'ic schist with 20% calcite partings, minor pale epidote and 0.5% diss Py & isolated fg Cp; Minor qtz-calc veinlets with tr Py here and there; | chl, ca, | tr Py, Cp (See veins, alteration;) 0.5% Py throughout, in calc veinlets, qtz-calc veinlets and on fractures; |
| 390.30 | 408.00 | 2g,a   | <u>AMYGULAR TO MASSIVE MAFIC FLOW</u> : As above; 390.3 to 395.0: 2% to 3% qtz amygdules and sections with flow bands; 395.0 to 408: relatively massive with sparse 0.5mm amygdules;                              | Few fractures;                                                                                                                                                                       |     | 407.8: 3cm qtz-calc vein at 80°; Relatively fresh and unaltered;                                                                                                                                                                                                                                                             |          | Isolated tr Py;                                                                                              |

408 END OF HOLE;

Sample Sheet: W-08-16

| Sample Number | From m | To m   | Sample Length | Est Min % |     |     | Au g/tonne | Au Check | Ag ppm | Cu ppm | Pb ppm | Zn ppm |  | Remarks         |
|---------------|--------|--------|---------------|-----------|-----|-----|------------|----------|--------|--------|--------|--------|--|-----------------|
|               |        |        |               | Po        | Py  | Cp  |            |          |        |        |        |        |  |                 |
| 3554          | 106.50 | 107.00 | 0.50          |           | tr  | 0.2 | NIL        | -        | 0.4    | 423    | 2      | 49     |  | 0.15m fine bx;  |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
| 3565          | 390.00 | 390.30 | 0.30          |           | 0.5 | tr  | NIL        | -        | 0.2    | 125    | 1      | 55     |  | chl-calc shear; |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |
|               |        |        |               |           |     |     |            |          |        |        |        |        |  |                 |

**Western Kidd Resources Inc.**

**Drill Log  
Lithochemistry**

DH # W-06-16

Loveland Township

**DH: W-06-16 Lithochemistry**

Certificates

| Sample # | From   | To     | SiO2 % | Al2O3 % | Fe2O3 % | CaO % | MgO % | Na2O % | K2O % | TiO2 % | P2O5 % | MnO % | BaO % | Cr2O3 % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %  | Zr/Y |
|----------|--------|--------|--------|---------|---------|-------|-------|--------|-------|--------|--------|-------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|------|------|
| 3551     | 16.00  | 17.00  | 52.45  | 16.24   | 9.52    | 7.43  | 4.76  | 3.68   | 0.45  | 0.82   | 0.18   | 0.14  | 0.01  | 0.02    | <5     | 37     | 23     | <10    | 90     | <100   | 21     | 190    | 167   | 20    | 12     | 111    | 3.41  | 99.19   | 0.03 | 0.02 | 5.55 |
| 3552     | 53.00  | 54.00  | 54.37  | 15.28   | 8.48    | 10.12 | 3.93  | 2.35   | 0.24  | 0.71   | 0.16   | 0.12  | 0.01  | 0.03    | <5     | 34     | 34     | <10    | 73     | <100   | 19     | 83     | 146   | 17    | <5     | 96     | 3.12  | 98.97   | 0.05 | 0.07 | 5.65 |
| 3553     | 95.00  | 96.00  | 53.77  | 17.09   | 8.12    | 8.53  | 3.86  | 3.36   | 0.67  | 0.73   | 0.16   | 0.12  | 0.02  | 0.02    | <5     | 33     | 36     | <10    | 62     | <100   | 18     | 101    | 136   | 20    | 43     | 117    | 2.49  | 99.00   | 0.02 | 0.01 | 5.85 |
| 3554     | 106.50 | 107.00 | 60.09  | 14.61   | 5.38    | 9.20  | 2.24  | 2.56   | 1.20  | 0.57   | 0.14   | 0.08  | 0.03  | 0.03    | <5     | 30     | 389    | <10    | 47     | <100   | 14     | 156    | 106   | 16    | 24     | 93     | 2.59  | 98.78   | 0.15 | 0.06 | 5.81 |
| 3555     | 125.00 | 126.00 | 58.96  | 15.23   | 7.24    | 6.72  | 3.50  | 3.22   | 0.68  | 0.67   | 0.15   | 0.1   | 0.02  | 0.02    | <5     | 31     | 31     | <10    | 59     | <100   | 16     | 102    | 124   | 18    | 8      | 107    | 2.8   | 99.40   | 0.02 | 0.01 | 5.94 |
| 3556     | 165.00 | 166.00 | 56.83  | 15.58   | 7.24    | 8.21  | 3.52  | 3.00   | 0.64  | 0.67   | 0.15   | 0.11  | 0.02  | 0.03    | <5     | 30     | 9      | <10    | 60     | <100   | 17     | 180    | 125   | 19    | 10     | 108    | 2.45  | 98.51   | 0.02 | 0.01 | 5.68 |
| 3557     | 195.00 | 196.00 | 55.26  | 16.51   | 8.49    | 7.33  | 4.41  | 2.89   | 0.55  | 0.75   | 0.16   | 0.11  | 0.02  | 0.02    | <5     | 34     | 20     | <10    | 67     | <100   | 18     | 98     | 140   | 20    | 8      | 117    | 3.29  | 99.85   | 0.01 | 0.01 | 5.85 |
| 3558     | 225.00 | 226.00 | 56.70  | 15.63   | 7.95    | 6.63  | 4.02  | 2.42   | 1.72  | 0.68   | 0.15   | 0.12  | 0.04  | 0.02    | <5     | 30     | 7      | <10    | 59     | <100   | 17     | 220    | 134   | 19    | 12     | 109    | 3.11  | 99.25   | 0.05 | 0.02 | 5.74 |
| 3559     | 254.10 | 255.10 |        |         |         |       |       |        |       |        |        |       |       |         |        |        |        |        |        |        |        |        |       |       |        |        |       |         |      |      |      |
| 3560     | 290.00 | 291.00 | 54.50  | 16.13   | 8.61    | 7.79  | 4.59  | 2.10   | 0.82  | 0.75   | 0.17   | 0.12  | 0.03  | 0.02    | <5     | 35     | 20     | <10    | 80     | <100   | 21     | 196    | 163   | 19    | 30     | 102    | 3.22  | 98.92   | 0.02 | 0.01 | 5.37 |
| 3561     | 329.00 | 330.00 | 55.17  | 15.66   | 8.8     | 7.66  | 4.51  | 2.33   | 0.92  | 0.74   | 0.16   | 0.13  | 0.03  | 0.03    | <5     | 36     | 39     | <10    | 75     | <100   | 20     | 178    | 154   | 18    | 15     | 101    | 2.98  | 99.19   | 0.01 | 0.14 | 5.61 |
| 3562     | 351.00 | 352.00 | 56.25  | 16.07   | 8.21    | 7.98  | 4.01  | 2.63   | 0.45  | 0.72   | 0.16   | 0.11  | 0.01  | 0.02    | <5     | 31     | <5     | <10    | 62     | <100   | 17     | 65     | 134   | 19    | 16     | 112    | 2.89  | 99.55   | 0.02 | 0.01 | 5.89 |
| 3563     | 375.00 | 376.00 | 57.40  | 15.94   | 7.79    | 6.57  | 3.99  | 3.58   | 0.82  | 0.70   | 0.16   | 0.11  | 0.02  | 0.02    | <5     | 31     | 19     | <10    | 61     | <100   | 17     | 131    | 130   | 19    | 25     | 111    | 2.1   | 99.24   | 0.02 | 0.01 | 5.84 |
| 3564     | 389.00 | 390.00 | 46.76  | 14.28   | 13.44   | 10.05 | 7.85  | 1.70   | 0.46  | 1.00   | 0.11   | 0.19  | 0.01  | 0.03    | <5     | 58     | 58     | <10    | 84     | <100   | 36     | 105    | 266   | 20    | 24     | 57     | 3.39  | 99.34   | 0.11 | 0.11 | 2.85 |
| 3565     | 390.00 | 390.30 | 48.74  | 13.96   | 9.62    | 11.11 | 5.84  | 0.78   | 1.18  | 0.84   | 0.13   | 0.13  | 0.02  | 0.03    | <5     | 46     | 77     | <10    | 70     | <100   | 27     | 54     | 196   | 20    | 12     | 79     | 7.24  | 99.68   | 0.87 | 0.04 | 3.95 |
| 3566     | 405.00 | 406.00 | 56.49  | 16.26   | 7.82    | 7.74  | 3.84  | 3.06   | 0.54  | 0.69   | 0.16   | 0.11  | 0.02  | 0.02    | <5     | 33     | 26     | <10    | 66     | <100   | 17     | 85     | 141   | 19    | 19     | 111    | 2.53  | 99.34   | 0.02 | 0.01 | 5.84 |

**GEOLOGICAL LEGEND**

- 10 Late diabase dykes, Matachewan Type;
- 8 *Altered and Metamorphosed Rocks***
  - 8 (a) Carbonate rock  (c) Chlorite-carbonate rock
- 6 *Granitoid Intrusives***
  - (a) Granite
  - (b) Granodiorite
  - (c) Quartz Monzonite
- 5 *Mafic Intrusives***
  - (a) Gabbro  (f) fine to medium grained mafic
  - (d) Diorite  (p) med. grained feldspar-phyric
- 4 *Sediments***
  - (a) Argillite  (s) Siltstone +/- argillite
  - (c) Chert  (e) Sulphide-rich exhalites
  - (g) Graphitic argillite/siltstone  (l) Feldspathic quartzites
- 3 *Intermediate to Felsic Volcanics & Subvolcanic Intrusives***
  - (a) Rhyolite flows
  - (b) Thin bedded felsic/intermediate tuff
  - (c) Quartz (+/- feldspar)phyric tuffs
  - (d) Quartz (+/- feldspar)phyric (sub-volcanic) intrusives
  - (e) Quartz (+/- feldspar)phyric flows
  - (f) Felsic tuff, tuff breccia (non phytic)
  - (g) Feldspar crystal tuff, tuff bx
  - (h) Feldspar porphyry intrusives
  - (k) fg. felsic/intermed. dyke
- 2 *Mafic Volcanics***
  - (a) Massive  (b) Breccia, flow bx
  - (c) Coarse grained  (d) Pillowed flows
  - (e) Variolitic (spherulitic) flows  (f) Feldspar phytic (andesite)
  - (l) Diabasic flow  (g) Amygular flow

**ABBREVIATIONS**

- alt altered
- bdd banded
- bl bleached
- ca calcite
- Cp chalcopyrite
- chl chlorite, chloritic
- ep epidote
- fg; cg fine & coarse grained
- gf graphite, graphitic
- mt magnetite
- Po pyrrhotite
- Py pyrite
- qv quartz vein
- Sph sphalerite
- ser sericite
- sh sheared

**Western Kidd Resources Inc.**

**Drill Log**

DH. W-06-17

Loveland Township

| DH#     | Northg | Eastg  | Elev | Az        | Dip | UTM Base | UTME <sup>(2)</sup> | UTM N <sup>(2)</sup> | UTM E <sup>(1)</sup> | Length | Claim #s | Drilled By        | Logged By    |
|---------|--------|--------|------|-----------|-----|----------|---------------------|----------------------|----------------------|--------|----------|-------------------|--------------|
| W-08-17 | 10312  | 5510   |      | 255.5     | 45  | NAD 27   | 453267              | 5389425              | 306                  | 396.0  | 1171679  | Forage Lafreniere | A.W. Beecham |
|         | approx | approx |      | grid East |     | NAD83    | 453284              | 5389644              |                      |        | 1228725  |                   |              |

Down Hole Surveys

| Depth  | Az. Mag | Az. Corr | Dip  | Remarks |
|--------|---------|----------|------|---------|
| collar | 266     | 255.5    | 45.0 | layout  |
| 51     | 268.6   | 258.1    | 44.5 | Flexit  |
| 102    | 269.1   | 258.6    | 44.6 | Flexit  |
| 153    | 272.4   | 261.9    | 44.6 | Flexit  |
| 204    | 272.9   | 262.4    | 45.1 | Flexit  |
| 255    | 275.8   | 265.3    | 45.5 | Flexit  |
| 306    | 276.3   | 265.8    | 45.2 | Flexit  |
| 357    | 278.5   | 268.0    | 45.4 | Flexit  |
| 396    | 279.7   | 269.2    | 44.8 | Flexit  |

Dates: Started 10-May-08  
Completed 14-May-08

Objective: test Titan "T-1" IP Anomaly  
Scissor ' hole;

Samples: Whole Rock Anal 3567 to 3569  
3571 to 3578  
3580; 3581  
Geochem, 3570; 3579

Notes:

- (1) Elevation from hand-held Magellan Meridian
- (2) UTM coordinates from hand-held Magellan Meridian, +/- 3 m;
- (3) Grid coordinates estimated from GPS plot;

Core Storage: Nighthawk Timber depot, Stringer Road  
Shaw Township, (south of S.Porcupine);

Contents:

- Collar sheet 1 pg
- Summary Sh 1 pg
- Lithology 5 pg
- Assay Sheet 1 pg
- Lithochem. 1 pg
- Geological Legend

**Summary Log W-08-17**

|        |        |                                                      |
|--------|--------|------------------------------------------------------|
| 0.00   | 3.00   | Casing                                               |
| 4.00   | 14.60  | Porphyritic Diabase                                  |
| 14.60  | 171.94 | Mafic Flows                                          |
| 171.94 | 196.30 | Fine grained Mafic Intrusive                         |
| 196.30 | 203.15 | Altered, sheared, fine-grained Mafic Intrusive/Fault |
| 203.15 | 215.30 | Fine grained Mafic Intrusive                         |
| 215.30 | 377.00 | Mafic Flows                                          |
| 377.00 | 377.20 | Fault                                                |
| 377.20 | 381.65 | Porphyritic Mafic Intrusive                          |
| 381.65 | 396.00 | Mafic Flows;                                         |

**Remarks**

- 1 No significant sulphide or graphite concentrations and no explanation of strong Titan DC. IP anomaly; anomaly coincides with outcrop area;
- 2 Thin fault at 377m accompanied by altered mafic dyke, and even though fault very narrow, it could have considerable movement; This is possibly the North Valley Fault as shown on surface geological map.
- 3 14.6 to 247: Massive, amygdular +/-pillowed 'andesites' with SiO<sub>2</sub> contents 59 to 63%;  
247 to 396: Mainly pillowed 'basalts' with SiO<sub>2</sub> contents of 52 to 48.7 %;
- 4 Elevated K<sub>2</sub>O from 240 to 360 seem to correlate with bleaching, mottling and "white fsp-qtz spots";

| From   | To     | Symb | Description                                                                                                                                                                                                   | Structure                                                                                                                 | CA  | Alteration, Veins                                                                                                                                 | Alt Sym | Mineralization                                         |
|--------|--------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------|
| 0.00   | 3.00   |      | <u>CASING</u>                                                                                                                                                                                                 |                                                                                                                           |     |                                                                                                                                                   |         |                                                        |
| 4.00   | 14.60  | 10   | <u>PORPHYRITIC DIABASE</u> : Dark green, upper part mg matrix with fsp up to about 1mm, finer toward lower contact; 4% pale green, epidotized, sub-hedral feldspar phenocrysts up to 15mm; Strongly magnetic; | Strongly fractured below 9m; No penetrative deformation; Chilling toward lower ct, but actual ct obscured by broken core; |     | Fresh and unaltered except epidotized phenocrysts; Dk chl films in fractures;                                                                     |         | 0.5% interstitial Py;                                  |
| 14.60  | 25.00  | 2g,a | <u>MAFIC FLOW with Epidote Pods</u> : Dark grey-green, fine even grained; blotchy or speckled due to alteration; H=5 to 5.5; Up to 2% small qtz amygdules;                                                    | Moderately fractured, some short sections broken; Lower contact arbitrary, same flow above and below;                     |     | Characterized by scattered bleached and epidotized small spots and pods up to 20 cm; A few qtz-fsp spots or amygdules;                            | epid    |                                                        |
| 25.00  | 48.50  | 2a,g | <u>MASSIVE TO AMYGULAR MAFIC FLOW</u> : As above, 14.6 to 25 without epidote pods and spots; Sections with small amygdules;                                                                                   | Moderately to strongly fractured with prominent direction at 40°; Contacts arbitrary;                                     |     | Minor small spots, bleaching or pale epidote; some fsp-qtz spots; Isolated bleached 'pods';                                                       |         | isolated tr Py                                         |
| 48.50  | 57.30  | 2a,g | <u>MASSIVE, AMYGULAR MAFIC FLOW</u> : As above; Slight brownish hue;                                                                                                                                          | Only weakly fractured;                                                                                                    |     | Weakly bleached; Minor white fsp-qtz spot/amygdules?                                                                                              |         |                                                        |
| 57.30  | 59.60  | fr 2 | <u>FRACTURED MAFIC FLOW</u> : As above;                                                                                                                                                                       | Prominent fractures, a little gouge mainly at 10°;                                                                        | 10, | 5% qtz-calcite veins up to 2 cm; with a little jasperoid;                                                                                         |         |                                                        |
| 59.60  | 61.00  | 2g   | <u>AMYGULAR MAFIC FLOW</u> : As above, med to lt grey; 4% 1 to 2mm qtz amygdules; Some flow banding                                                                                                           |                                                                                                                           |     | Weak sil'n/bleaching;                                                                                                                             |         |                                                        |
| 61.00  | 63.60  | 2d   | <u>PILLOWED, MAFIC FLOW</u> : Med to dark grey-green, 5 to 10 cm dk and light bands aligned in opposite directions seem to mark pillows, but could be bx?? Amygular;                                          | banding 45 to 140°                                                                                                        |     | Minor qtz-epidote alteration;                                                                                                                     |         |                                                        |
| 63.60  | 110.60 | 2a,g | <u>MASSIVE, AMYGULAR MAFIC FLOW</u> : Med grey-green, fine even ophitic texture; H=5.5; Most is weakly amy with short sections with abundant qtz amygdules; Flow bands &/or pillow ribs here and there;       | Moderate fracturing, 69.5 to 82: Short broken sections;                                                                   |     | Minor light spotting; a little qtz-epidote; 69.3 to 69.5: Two, 1 cm qtz-calc veins with tr Py; 81.6 to 82.4: 3% calc-jasperite veinlets to 1.5 cm |         | tr diss Py here and there; tr Py in qtz-calc veinlets; |
| 110.60 | 123.30 | 2g,a | <u>AMYGULAR MAFIC FLOW</u> : As above, 110.6 to 111: fine (flow-top?) bx; Up to 5% ,0.5 to 3mm qtz amyg.; some flow bands;                                                                                    | Possible flow contact at top of unit, but material above and below very similar; Lower contact arbitrary & gradational;   |     | 111 to 112.1: Strong dark chl with 8% calcite veins; 117.5 to 117.9: Grey banded qtz-calcite, tr Py vein at 25°; White fsp-qtz spots              | chl     | Isolated tr Py; See 'veins'                            |
| 123.30 | 132.90 | 2a   | <u>MASSIVE MAFIC FLOW</u> : As above, but with few flow structures;                                                                                                                                           | Same flow as above;                                                                                                       |     |                                                                                                                                                   |         |                                                        |



| From   | To     | Symb     | Description                                                                                                                                                                                                                                                                                                             | Structure                                                                                                                                                                                              | CA | Alteration, Veins                                                                                                                                                                                          | Alt Sym  | Mineralization                                                                                                                              |
|--------|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 132.90 | 151.50 | 2d       | <u>PILLOWED, MAFIC FLOW</u> : Med to dark grey-green, 5 to 10 cm dk and light bands aligned in opposite directions seem to mark pillows, as with unit 61 to 63.6m; Flow bands (pillow ribs) also mark pillows; (Unusual pillow selvages, different from pillows typically developed in basalts); Minor fine angular bx; | 137: mm gouge seam at 65°; Lower contact at lowest pillow selvage and thin bx; relatively solid core, few fractures;                                                                                   |    | 3 to 15mm white fsp-qtz spot, either alteration or amygdules; Minor weak chl in pillow selvages; 137 to 137.8: moderate, pervasive, dark chl; 141.6: 0.2m, & 148.4: 0.1m dark chl+calc alteration          | -chl     |                                                                                                                                             |
| 151.50 | 171.94 | 2g,a     | <u>MASSIVE, AMYGULAR, MAFIC FLOW</u> : Colour and texturally as above; Fine diabase-like textures in places; sections of up to 5% fine qtz amygdules; a little fine bx                                                                                                                                                  | Core solid; few fractures;                                                                                                                                                                             |    | Minor chl in amygdules and hairline veinlets; Sections with 1 to 3mm light grey spots, speckles with dark matrix (not chl); (weak chl alteration in sample for WRA)                                        | -chl     | 155.3 to 161.3: tr Py +/- a little Po as diss, with chl in amygdules and hairline chl'ic fractures, and films on fractures; tr Cp at 160.2; |
| 171.94 | 196.30 | 5f       | <u>FG, MAFIC INTRUSIVE</u> : Med grey-green, massive uniform, dyke-like: Uniformly med-fine grained with stubby, random-oriented fsp to diabasic; Middle is slightly coarser grained with 0.5% 1 to 4mm white fsp phenocrysts; Speckled with fine leucoxene;                                                            | Upper contact abrupt, but cannot find chill; Lower contact arbitrary, undeformed vs deformed;                                                                                                          |    | Relatively fresh and unaltered;                                                                                                                                                                            |          |                                                                                                                                             |
| 196.30 | 203.15 | alt,sh5f | <u>ALTERED, SHEARED, FG MAFIC INTRUSIVE</u> : As above where not strongly sheared; H= 5.5 to 3.5 or 4 where sheared                                                                                                                                                                                                     | Strong schistosity at 50°; Short broken sections: 1 cm gouge at 200.6m; Minor gouge elsewhere along schistosity; Unit is a small fault.                                                                |    | 7% calcite partings and veinlets & pervasive calc alteration; Minor mm veinlets jasperite (red hem alt.) with some of calcite partings; Mod to weak pervasive chl; short sections of lt grey bleach/sil'n? | ca, -chl | tr Py here and there with carb veinlets;                                                                                                    |
| 203.15 | 215.30 | 5f       | <u>FG, MAFIC INTRUSIVE</u> : As above 171.94 to 196.3m; <u>Remarks</u> : 208.6 to 209.5: moderately sheared with white qtz and weak pervasive chlorite;                                                                                                                                                                 | Upper contact arbitrary; Lower contact sharp chill at 45°; 207.9 to 208.5: 3 or 4 chilled contacts mark small mafic dykes and multiple pulses of similar composition; Chills also at 212.3 and 212.9m. |    | See 'Remarks';                                                                                                                                                                                             |          | 208.8 to 209.1: 0.3% Py with qtz carb partings;                                                                                             |
| 215.30 | 225.60 | 2g       | <u>AMYGULAR MAFIC FLOW</u> : As above; 2 to 4mm, mostly qtz, round to stretched or irregular amygdules; Short bx bands and colour bands from 1 cm to 5 cm thick and mostly more than 2m apart, may be pillow selvages;                                                                                                  | Few fractures; Lower ct: fine a few cm fine bx and textural change—could be flow contact??                                                                                                             |    | Only weakly altered: fine mottling/bleaching, minor clusters/spots white fsp-qtz;                                                                                                                          |          | Isolated tr Py                                                                                                                              |
| 225.60 | 236.50 | 2a,g     | <u>MASSIVE AMYGULAR MAFIC FLOW</u> : Colour and texture as above; Sections with 2 to 3% 1mm amygdules; Flow bands here and there;                                                                                                                                                                                       | See alt/veins; Contacts arbitrary and gradational;                                                                                                                                                     |    | 230.8 to 233.7: Moderately fractured with 3 to 5%, mm chl +/- calcite veinlets with tr Py                                                                                                                  | -chl     | See alteration/veins;                                                                                                                       |
| 236.50 | 239.60 | 2g       | <u>AMYGULAR MAFIC FLOW</u> : As above; 2 to 5% grey qtz amyg.                                                                                                                                                                                                                                                           |                                                                                                                                                                                                        |    | White fsp-qtz alteration spots or amygdules up to 2 cm.                                                                                                                                                    |          |                                                                                                                                             |

| From   | To     | Symb   | Description                                                                                                                                                                                                                                                                                                                                                                          | Structure                                                                                                                           | CA | Alteration, Veins                                                                                                                                                                                                                                                                                                      | Alt Sym | Mineralization |
|--------|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|
| 239.60 | 247.10 | 2b     | <u>MAFIC VOLCANIC BRECCIA</u> : Med and lt grey-green, fine, even grained; H=5.5 Angular to ragged fragments incl some 'ribbon' fragments, from < 1cm to >15cm, with slightly darker matrix; Most frag's with abundant, fine amygdules, sparse fsp phytic; Possibly a pillow bx but does contains some exotic fragments; <u>Remarks</u> : 244.7 to 246: massive, amygular flow rock; | Few fractures;                                                                                                                      |    | Minor bleaching of fragments; weak grid-type bleaching here and there (sampled for WRA)                                                                                                                                                                                                                                |         | Isolated tr Py |
| 247.10 | 251.00 | 2d     | <u>PILLOWED, MAFIC FLOW</u> : Texture, colour as above; Pillow selvages 5mm to 8cm, dark, slightly chl bands or with fine bx (hyaloclastite); flow bands; 3% fine amygdules                                                                                                                                                                                                          | See alteration/veins;                                                                                                               |    | 248.9 to 249.3: Strong fracturing with moderate chl and 8% calc. veinlets; Sparse white fsp-qtz spots to 15mm;                                                                                                                                                                                                         |         | Isolated tr Py |
| 251.00 | 261.70 | 2g     | <u>MASSIVE, AMYGULAR MAFIC FLOW</u> : As above, 3 to 4% fine qtz amygdules; sparse flow bands; isolated pillow selvages;                                                                                                                                                                                                                                                             | Upper ct arbitrary--same flow as above pillowed unit; Lower ct arbitrary                                                            |    | minor white fsp-qtz spots to 2 cm;                                                                                                                                                                                                                                                                                     |         |                |
| 261.70 | 294.80 | 2d, a  | <u>MASSIVE TO PILLOWED MAFIC FLOW</u> : As above; Pillow selvages as described above up to 2 to 3m apart; 2 to 4% qtz amygdules; isolated sections with flow bands;                                                                                                                                                                                                                  | 271.3 Shear with gouge seams at 35°; 288.85 to 289.0: Chl-calc shear at 40°;                                                        |    | 1 to 2% white fsp-qtz spots up to 2 cm; 262.57 to 262.73 Strong black chl-calcite--some graphite as conductive in places--graphite not recognized visually; 262.2 to 262.4: 5mm chl'ic fractures; 271.25 to 271.40: Strong chl + calc shear with gouge seams; 288.85 to 289.0: Strongly chl'd shear with calc partings | -chl    |                |
| 294.80 | 297.30 | alt 2d | <u>ALTERED PILLOWED MAFIC VOLCANIC</u> : Dark green, fine grained; sections with up to 8% 0.5mm, hard, lt grey mineral (fine porphyroblasts or feldspar phenocrysts?); Looks strongly chloritic but relatively hard, 5 to 4.5; Fairly close-spaced chl'ic pillow selvages and bands;                                                                                                 | Contacts based on alteration                                                                                                        |    | 20 to 30% appears to have moderate to strong, pervasive chl; Minor white fsp-qtz spots;                                                                                                                                                                                                                                | chl     |                |
| 297.80 | 325.20 | 2d,g   | <u>PILLOWED, AMYGULAR, MAFIC FLOW</u> : Med to lt grey-green, fine, even grained; indistinct pillows, flow banding; 4% fine qtz amygdules;                                                                                                                                                                                                                                           | Few fractures; 318.9 to 319.4: strong fracturing, some broken with minor gouge; Minor broken core at 310; Upper contacts arbitrary; |    | Minor wisps chl toward bottom of unit; 318.9 to 319.4: Strong chl-calc along fractures from 5mm to 10 cm thick; Minor 0.5 to 2 cm white fsp-qtz spots and altered amygdules; 321.4 to 321.8: Pale green, hard alteration along calcite fractures--probably epidote??                                                   |         | Isolated tr Py |

| From   | To     | Symb | Description                                                                                                                                                                                                                                            | Structure                                                                                                                                                                                                                                                             | CA | Alteration, Veins                                                                                                                         | Alt Sym | Mineralization                                     |
|--------|--------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------|
| 325.20 | 334.10 | 2d   | <u>PILLOWED MAFIC FLOW</u> : Similar to previous unit except mod to weakly amygdular; Med to light grey; <u>Remarks</u> : Well preserved hyaloclastite in pillow selvage at 327m;                                                                      | 30cm angular fine, angular bx at top; No white fsp-qtz spotting/amygdules as are fairly abundant in previous unit; Sharp contact at bottom with lower unit chilled against this unit?? Moderately fractured; 328.9 to 329.3: Chl'ic shear with a little gouge at 50°; |    | 328.9 to 329.3: Chl'ic shear with 15 cm cg calc-qtz vein; Minor bleaching;                                                                | -chl    |                                                    |
| 334.10 | 349.30 | 2d,g | <u>PILLOWED, AMYGULAR, MAFIC FLOW</u> : Lt grey-green, fine, even grained; Wide-spaced 1 to 3cm pillow selvages 3 to 4%, 0.5 to 2mm qtz amygd; , flow banding; Minor sections fine, angular bx; <u>Remarks</u> : 343.25-343.5: flow banded mafic dyke; | 337.0 to 337.1: chl'c shear at 30°; 348.6 to 348.96: chl shear at 50; Lower contact sharp with this unit chilled against following one; Unit moderately fractured'; 346.9 to 347.1m; finely broken;                                                                   |    | Weakly bleached: Minor sil'n around some amygd and fractures: 337 to 337.1: chl-calc shear; 348.6 to 348.96: Strong chl-calcite, minor Py |         | 335: Isolated tr diss Py; 348.9: 0.5% Py over 0.1m |
| 349.10 | 357.30 | 2g   | <u>AMYGULAR MAFIC FLOW</u> : As above; Light grey-green; 2 to 3% qtz amygd; a few flow bands; Minor angular bx;                                                                                                                                        | Contacts arbitrary; no recogizable pillow selvages                                                                                                                                                                                                                    |    | Weakly bleached with minor sil'n along fract. 1% white fsp-qtz spots/alterd amygd                                                         | bl'd    | Isolated tr Py diss and in altered amygdules;      |
| 357.30 | 377.00 | 2g,d | <u>AMYGULAR, PILLOWED MAFIC FLOW</u> : Med to light grey-green, mottled; Fine even grained, H= 5 to 5.5; Broad pillow selvages marked mostly by dark bands; 2% with short sections 6% 0.5 to 2mm qtz amygdules;                                        | 375.9 to 376.2: Angular bx with fragmental 'matrix';                                                                                                                                                                                                                  |    | Weak bleaching, minor sil'n(?) along fractures & around amygdules;                                                                        | bl'd    | Isolated tr Py                                     |
| 377.00 | 377.20 |      | <u>FAULT</u> : Fine fault bx, Gouge/bx seams up to 2cm. Even though narrow, and almost no adjacent fracturing, this appears to be a significant fault;                                                                                                 | Fault at 60 to 70°;                                                                                                                                                                                                                                                   |    | Strong chl above and of fragments;                                                                                                        | chl     |                                                    |
| 377.20 | 381.65 | 5p   | <u>FG, PORPHYRITIC MAFIC DYKE</u> med grey, 'dappled' fg matrix up to 0.5mm, randomly oriented fsp, with 0.5%, 1 to 3mm white fsp phenocrysts; fsp-rich;                                                                                               | Lower contact chilled at 80                                                                                                                                                                                                                                           |    | bleaching/5mm dapples; 377.2 to 378.6: dk grey with pervasive calc and 2% calc veinlets;                                                  | bl, ca  | isolated tr Py in calc veinlets;                   |
| 381.65 | 396.00 | 2g,d | <u>AMYGULAR MAFIC FLOW</u> : As above; 1 to 6%, 0.5 to 2mm qtz and fsp-qtz amygdules; pillows marked by typical dark selvages, banding at various core angles, narrow bx's; <u>Remarks</u> : 393 to 394.5: angular bx                                  |                                                                                                                                                                                                                                                                       |    | Weak bleaching/mottling, possibly incl sil'n? Sparse 1 to 3 cm. white fsp-qtz clusters/alterd amygdules                                   | bl      | Isolated tr Py, diss and with bleaching/sil'n;     |
|        | 396.00 |      | <u>End of Hole</u>                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                       |    |                                                                                                                                           |         |                                                    |

Western Kidd Resources Inc

Drill Log

*08-17*  
DH: W-08-17 Pg:

Sample Sheet: W-08-17

| Sample Number | From m | To m   | Sample Length | Est Min % |    |    |     | Au g/tonne | Au check | Ag ppm | Cu ppm | Pb ppm | Zn ppm |  | Remarks |
|---------------|--------|--------|---------------|-----------|----|----|-----|------------|----------|--------|--------|--------|--------|--|---------|
|               |        |        |               | Po        | Py | Cp | Sph |            |          |        |        |        |        |  |         |
| 3570          | 117.50 | 118.00 | 0.50          |           |    |    |     |            |          |        |        |        |        |  |         |
| 3579          | 348.50 | 349.00 | 0.50          |           |    |    | 17  | 5          | 0.2      | 45     | 1      | 60     |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |
|               |        |        |               |           |    |    |     |            |          |        |        |        |        |  |         |

Western Kidd Resources Inc.

Drill Log  
Lithochemistry

DH # W-06-17

Loveland Township

DH: W-06-17 Lithochemistry

Certificates

| Sample # | From   | To     | SiO2 % | Al2O3 % | Fe2O3 % | CaO % | MgO % | Na2O % | K2O % | TiO2 % | P2O5 % | MnO % | BaO % | Cr2O3 % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %   | Zr/Y |
|----------|--------|--------|--------|---------|---------|-------|-------|--------|-------|--------|--------|-------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|-------|------|
| 3567     | 21.00  | 22.00  | 62.71  | 14.82   | 6.29    | 3.85  | 3.88  | 4.53   | 0.4   | 0.65   | 0.15   | 0.09  | 0.01  | 0.02    | <5     | 28     | 18     | <10    | 57     | <100   | 16     | 93     | 119   | 17    | <5     | 106    | 2.26  | 99.72   | 0.02 | 0.01  | 6.24 |
| 3568     | 55.00  | 56.00  |        |         |         |       |       |        |       |        |        |       |       |         |        |        |        |        |        |        |        |        |       |       |        |        |       |         |      |       |      |
| 3569     | 92.00  | 93.00  | 59.12  | 15.70   | 7.58    | 6.60  | 3.76  | 3.02   | 0.99  | 0.69   | 0.16   | 0.1   | 0.03  | 0.02    | <5     | 32     | 30     | <10    | 62     | <100   | 17     | 113    | 129   | 18    | <5     | 109    | 2.19  | 100     | 0.02 | 0.02  | 6.06 |
| 3570     | 117.50 | 118.00 |        |         |         |       |       |        |       |        |        |       |       |         |        |        |        |        |        |        |        |        |       |       |        |        |       |         |      |       |      |
| 3571     | 130.00 | 131.00 | 57.10  | 15.52   | 7.13    | 6.70  | 4.42  | 2.01   | 0.93  | 0.68   | 0.16   | 0.11  | 0.04  | 0.02    | <5     | 31     | 8      | <10    | 62     | <100   | 16     | 136    | 136   | 18    | 8      | 108    | 5     | 99.86   | 0.41 | <0.01 | 6.00 |
| 3572     | 160.00 | 161.00 | 58.07  | 15.82   | 7.83    | 7.37  | 4.16  | 2.81   | 0.41  | 0.69   | 0.15   | 0.11  | 0.02  | 0.02    | <5     | 31     | 66     | <10    | 59     | <100   | 16     | 138    | 130   | 18    | 23     | 108    | 2.42  | 99.94   | 0.03 | 0.06  | 6.00 |
| 3573     | 190.00 | 191.00 | 57.30  | 15.57   | 8.70    | 7.30  | 3.73  | 3.04   | 0.55  | 0.84   | 0.15   | 0.11  | 0.02  | 0.02    | <5     | 34     | 5      | <10    | 44     | <100   | 18     | 144    | 166   | 16    | <5     | 98     | 2.5   | 99.88   | 0.02 | <0.01 | 6.13 |
| 3574     | 230.00 | 231.00 | 58.71  | 15.88   | 7.29    | 7.06  | 3.84  | 2.67   | 1.11  | 0.69   | 0.15   | 0.12  | 0.03  | 0.02    | <5     | 28     | 25     | <10    | 57     | <100   | 17     | 152    | 127   | 18    | 6      | 109    | 2.31  | 99.93   | 0.02 | 0.01  | 6.06 |
| 3575     | 240.00 | 241.00 | 58.78  | 15.78   | 7.30    | 6.20  | 3.82  | 2.77   | 1.47  | 0.67   | 0.16   | 0.1   | 0.04  | 0.01    | <5     | 29     | 107    | <10    | 57     | <100   | 17     | 173    | 129   | 18    | <5     | 107    | 2.38  | 99.55   | 0.02 | 0.03  | 5.94 |
| 3576     | 280.00 | 281.00 | 51.91  | 17.08   | 8.58    | 9.58  | 4.55  | 3.67   | 0.89  | 0.68   | 0.15   | 0.11  | 0.02  | 0.03    | <5     | 31     | 5      | <10    | 59     | <100   | 18     | 134    | 129   | 18    | 63     | 101    | 2.29  | 99.58   | 0.01 | 0.02  | 5.61 |
| 3577     | 296.00 | 297.00 | 52.16  | 16.78   | 8.63    | 6.92  | 4.76  | 3.32   | 3.68  | 0.71   | 0.15   | 0.1   | 0.08  | 0.02    | <5     | 28     | <5     | <10    | 51     | <100   | 18     | 167    | 129   | 18    | 11     | 106    | 2.02  | 99.38   | 0.02 | 0.01  | 5.89 |
| 3578     | 313.00 | 314.00 | 50.69  | 17.41   | 9.06    | 8.27  | 5.14  | 4.08   | 1.22  | 0.72   | 0.16   | 0.11  | 0.02  | 0.02    | <5     | 32     | <5     | <10    | 62     | <100   | 18     | 112    | 132   | 18    | <5     | 106    | 2.67  | 99.61   | 0.01 | 0.02  | 5.89 |
| 3579     | 348.50 | 349.00 | 48.68  | 16.27   | 9.19    | 6.90  | 4.98  | 1.33   | 3.45  | 0.82   | 0.17   | 0.12  | 0.11  | 0.01    | <5     | 31     | <5     | <10    | 33     | <100   | 17     | 48     | 138   | 19    | 19     | 110    | 7.16  | 99.22   | 0.99 | 0.06  | 5.79 |
| 3580     | 359.00 | 360.00 | 51.98  | 16.72   | 8.42    | 9.52  | 4.67  | 3.08   | 1.22  | 0.69   | 0.16   | 0.11  | 0.02  | 0.03    | <5     | 30     | <5     | <10    | 61     | <100   | 18     | 88     | 136   | 18    | 11     | 101    | 2.36  | 99.04   | 0.03 | 0.02  | 5.61 |
| 3581     | 390.00 | 391.00 | 49.97  | 17.50   | 8.79    | 8.27  | 5.28  | 4.22   | 1.16  | 0.71   | 0.16   | 0.12  | 0.02  | 0.02    | <5     | 31     | <5     | <10    | 62     | <100   | 18     | 116    | 130   | 18    | <5     | 104    | 2.88  | 99.14   | 0.02 | 0.01  | 5.78 |

**GEOLOGICAL LEGEND**

- 10 Late diabase dykes, Matachewan Type;
  
- 8 Altered and Metamorphosed Rocks**
  - 8 (a) Carbonate rock                       (c) Chlorite-carbonate rock
  
- 6 Granitoid Intrusives**
  - (a) Granite
  - (b) Granodiorite
  - (c) Quartz Monzonite
  
- 5 Mafic Intrusives**
  - (a) Gabbro                                       (f) fine to medium grained mafic
  - (d) Diorite                                       (p) med. grained feldspar-phyric
  
- 4 Sediments**
  - (a) Argillite                                       (s) Siltstone +/- argillite
  - (c) Chert                                               (e) Sulphide-rich exhalites
  - (g) Graphitic argillite/siltstone               (l) Feldspathic quartzites
  
- 3 Intermediate to Felsic Volcanics & Subvolcanic Intrusives**
  - (a) Rhyolite flows
  - (b) Thin bedded felsic/intermediate tuff
  - (c) Quartz (+/- feldspar)phyric tuffs
  - (d) Quartz (+/- feldspar)phyric (sub-volcanic) intrusives
  - (e) Quartz (+/- feldspar)phyric flows
  - (f) Felsic tuff, tuff breccia (non phyric)
  - (g) Feldspar crystal tuff, tuff bx
  - (h) Feldspar porphyry intrusives
  - (k) fg. felsic/intermed. dyke
  
- 2 Mafic Volcanics**
  - (a) Massive                                       (b) Breccia, flow bx
  - (c) Coarse grained                               (d) Pillowed flows
  - (e) Variolitic (spherulitic) flows               (f) Feldspar phyric (andesite)
  - (l) Diabasic flow                                       (g) Amygular flow

**ABBREVIATIONS**

- alt altered
  
- bdd banded
- bl bleached
- Cp chalcopyrite
- chl chlorite, chloritic
- ep epidote
  
- fg; cg fine & coarse grained
- gf graphite, graphitic
- mt magnetite
  
- Po pyrrhotite
  
- Py pyrite
- qv quartz vein
  
- Sph sphalerite
- ser sericite
- sh sheared

**Western Kidd Resources Inc.**

**Drill Log**

DH. W-06-18

Loveland Township

| DH#     | Northg | Eastg  | Elev | Az        | Dip | UTM Base | UTME   | UTM N   | UTM E | Length | Claim #s | Drilled By        | Logged By    |
|---------|--------|--------|------|-----------|-----|----------|--------|---------|-------|--------|----------|-------------------|--------------|
| W-08-18 | 10400  | 4605.0 |      | 75.5      | 50  | NAD 27   | 452359 | 5389315 | 310.5 | 553.5  | 3019591  | Forage Lafrenière | A.W. Beecham |
|         |        |        |      | grid East |     | NAD83    | 452376 | 5389534 | *     |        | 1114983  |                   |              |

\* Elev; from corrected gps survey

Down Hole Surveys

| Depth  | Az. Mag | Az. Corr | Dip  | Remarks        |
|--------|---------|----------|------|----------------|
| collar | 86.0    | 75.5     | 50.0 | layout         |
| 51     | 84.0    | 73.5     | 50.8 | Flexit         |
| 102    | 84.1    | 73.6     | 51.5 | Flexit         |
| 153    | 86.1    | 75.6     | 51.1 | Flexit         |
| 204    | 85.9    | 75.4     | 50.8 | Flexit         |
| 255    | 87.4    | 76.9     | 51.2 | Flexit Diabase |
| 306    | 91.6    | 81.1     | 51.0 | Flexit         |
| 357    | 94.8    | 84.3     | 51.1 | Flexit         |
| 408    | 96.8    | 86.3     | 51.5 | Flexit         |
| 459    | 98.5    | 88.0     | 51.7 | Flexit         |
| 510    | 99.0    | 88.5     | 52.0 | Flexit         |
| 553.5  | 109     | 98.5     | 50.8 | Flexit Diabase |

Dates: Started 14-May-08  
Completed 29-May-08

Objective: test Titan MT-2 (Magneto-Telluric) anomaly & 'Eastern Contact' below D.H. W-04-03

Samples: 3582 to 3619

Temporary Core Storage: Black Pearl Core Shed, Haileybury Rd, Porcupine, ON

Permanent storage: Nighthawk Timber depot, Stringer Road Shaw Township, (south of S.Porcupine);

Contents:

- Collar sheet 1 sheet
- Down Hole Coord. 1 sheet
- Lithology pg 1 to 6
- Assay Sheet pg 1 & 2;
- Lithochem. pg. 1 & 2;
- Geological Legend: 1 sheet;

# DOWN HOLE CO-ORDINATE CALCULATIONS

PROPERTY: *Meunier, Loveland Township, Timmins* System : SI  
 Drill Hole Number: **W-08-18** Sect. Azim. 77.50 Degrees UTM north

| Data Depth | Plotting Point | Increm'l Length | "L" corr'd for sign | Dip a  | Azim of Segm't | Angle to Sec b | Along Sect. "X" | Vert "Y" | Normal to Sect. "Z" | Remarks | Mag Az | Corr'd Az   |                                |
|------------|----------------|-----------------|---------------------|--------|----------------|----------------|-----------------|----------|---------------------|---------|--------|-------------|--------------------------------|
| collar     |                |                 |                     |        |                |                | 4605            | 310.5    | 10400               |         |        | Decl -10.5° |                                |
| 0.00       | 0.00           | 25.00           | 25.00               | -25.00 | 50.0           | 75.5           | -2.0            | 4621.1   | 291.3               | 10400.6 | layout | 86.0        | 75.5                           |
| 50.00      | 25.00          | 75.00           | 50.00               | -50.00 | 50.8           | 73.5           | -4.0            | 4652.6   | 252.6               | 10402.8 | flexit | 84.0        | 73.5                           |
| 100.00     | 75.00          | 125.00          | 50.00               | -50.00 | 51.5           | 73.6           | -3.9            | 4683.6   | 213.5               | 10404.9 | flexit | 84.1        | 73.6                           |
| 150.00     | 125.00         | 175.00          | 50.00               | -50.00 | 51.5           | 75.6           | -1.9            | 4714.7   | 174.3               | 10405.9 | flexit | 86.1        | 75.6                           |
| 200.00     | 175.00         | 225.00          | 50.00               | -50.00 | 50.8           | 75.4           | -2.1            | 4746.3   | 135.6               | 10407.1 | flexit | 85.9        | 75.4                           |
| 250.00     | 225.00         | 275.00          | 50.00               | -50.00 | 51.2           | 76.9           | -0.6            | 4777.7   | 96.6                | 10407.4 | flexit | 87.4        | 76.9                           |
| 300.00     | 275.00         | 325.00          | 50.00               | -50.00 | 51.0           | 81.1           | 3.6             | 4809.1   | 57.8                | 10405.4 | flexit | 91.6        | 81.1                           |
| 350.00     | 325.00         | 375.00          | 50.00               | -50.00 | 51.1           | 84.3           | 6.8             | 4840.2   | 18.9                | 10401.7 | flexit | 94.8        | 84.3                           |
| 400.00     | 375.00         | 430.00          | 55.00               | -55.00 | 51.1           | 86.3           | 8.8             | 4874.4   | -23.9               | 10396.4 | flexit | 96.8        | 86.3                           |
| 460.00     | 430.00         | 485.00          | 55.00               | -55.00 | 51.7           | 88.0           | 10.5            | 4907.9   | -67.1               | 10390.2 | flexit | 98.5        | 88.0                           |
| 510.00     | 485.00         | 530.00          | 45.00               | -45.00 | 52.0           | 88.5           | 11.0            | 4935.1   | -102.6              | 10384.9 | flexit | 99.0        | 88.5                           |
| 550.00     | 530.00         | 551.75          | 21.75               | -21.75 | 50.8           | 88.5           | 11.0            | 4948.6   | -119.4              | 10382.3 | flexit | 99.0        | 88.5 magnetic, use previous az |
| 553.50     | 551.75         | 553.50          | 1.75                | -1.75  | 50.8           | 88.5           | 11.0            | 4949.7   | -120.8              | 10382.1 | flexit | 99.0        | 88.5 magnetic, use previous az |
|            | 553.50         | 0.00            | -553.50             | 553.50 |                |                |                 |          |                     |         |        |             |                                |
|            | 0.00           | 0.00            | 0.00                | 0.00   |                |                |                 |          |                     |         |        |             |                                |
|            | 0.00           | 0.00            | 0.00                | 0.00   |                |                |                 |          |                     |         |        |             |                                |
|            | 0.00           | 0.00            | 0.00                | 0.00   |                |                |                 |          |                     |         |        |             |                                |
|            | 0.00           | 0.00            | 0.00                | 0.00   |                |                |                 |          |                     |         |        |             |                                |
|            | 0.00           | 0.00            | 0.00                | 0.00   |                |                |                 |          |                     |         |        |             |                                |
|            | 0.00           | 0.00            | 0.00                | 0.00   |                |                |                 |          |                     |         |        |             |                                |
|            | 0.00           | 0.00            | 0.00                | 0.00   |                |                |                 |          |                     |         |        |             |                                |

End of Hole 553.50

Note: **Outline** requires data entry  
 Enter end of hole in column A after last dip test depth & enter projected dip in corresponding cell column F  
 IF "X" decreasing down hole change D to E in formula in column I

Note: Declination correction to UTM North used 10.5 deg.  
 A.W. Beecham 28-Jul-08



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**Summary Log**

0.0 54.0 casing  
38.5 156.5 fine to medium grained gabbro, with sections mafic volcanics  
156.5 216.2 mafic volcanics  
216.2 251.3 fine to medium grained gabbro  
251.3 281.8 late diabase (fault?)  
281.8 373.3 fine to medium grained gabbro, with sections mafic volcanics  
373.3 407.5 felsic volcanics  
407.5 423.0 fine to medium grained gabbro  
423.0 440.6 felsic volcanics  
440.6 491.2 mafic volcanics  
491.2 493.5 felsic volcanics  
493.5 516.3 mafic volcanics  
516.3 553.5 late diabase

**Drilling Notes**

1./Water return lost at 48m and rods temporarily struck after drilling past this point; HW casing reamed over NW casing to original casing depth of 39m; NW casing pulled and reamed down to 54m; Both HW and NW casings left in place; From the core it appears that the original casing penetrated less than 1m into bedrock.

2./'Seam' between 252 and 255m; 1m with no core reported caused 'sand' in hole; 'Seam' cemented;

**Geophysics**

Surveyed by Pulse EM, by Quantec Geoscience Inc. 29 May 2008; No significant conductors;

No explanation of MT resistivity low; Sulphide concentration estimated to be too low to cause anomaly;

**General Comments:** Chert-like ash beds between 377.8 and 393.9m confirm that these fragmental felsic volcanics are tuffs rather than flows.

64.3 to 65.2: Minor concentration of Cu, (158ppm) and Zn (1283 ppm) with Po-Py veinlets in gabbro;

435 to 436: Elevated K<sub>2</sub>O with minor Py, Po, Cp concentrations

438 to 444.8 : Concentrations of Po, Py from 0.5 to 1%, with tr amounts Cp and Sph;

White 'popcorn' alteration tentatively identified as andalusite by Resident Geologist, B. Atkinson identified by R. Barnet of London, ON by microscope and electron probe as quartz aggregates;

| From   | To     | Symbol   | Description                                                                                                                                                                                                                                    | Structure                                                                                                                                                                                                        | CA | Alteration, Veins                                                                                                                        | Alt Sym   | Mineralization                                                                                                                                                                                                                      |
|--------|--------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.00   | 54.00  | C        | CASING: NW casing to 54m; HW casing to 39m; Overburden, sand, boulders                                                                                                                                                                         |                                                                                                                                                                                                                  |    |                                                                                                                                          |           |                                                                                                                                                                                                                                     |
| 38.50  | 47.90  | 5a       | MG GABBRO: Med grey-green, mostly 0.5 to 2mm stubby to lath-like feldspar with scattered lath to 4mm; H=5; Non magnetic except where Po present;                                                                                               | 45.3 downward bx-like and intruded by fg mafic; Mod to strongly fr'd; 47.4 to 47.9: finely broken and 0.2 to 0.3 m lost core-possibly small fault;                                                               |    | 41.4 to 44.2: 3%, white qtz +/- calc veinlets up to 3 cm; 42.2 to 46.1: 1 to 2% dk grey sil'n bands up to 2 cm; Calcite in fr's section; | qv, sil   | 42.2 to 46.2: Scattered mm size blebs and veinlets Py, Po and tr Cp, 0.5% sulphides overall with concentrations of up to 5% over 5 cm; Sulphides with grey sil'd bands, white qv & isolated grains, blebs; Elsewhere tr Py with qv; |
| 47.90  | 49.80  | fr,alt2g | FRACTURED, ALTERED AMGYULAR MAFIC FLOW(Fault Zone): Light grey, fine even grained;                                                                                                                                                             | Strong fracturing with finely broken core and a little gouge, at 48.6m and from 49.1 to 49.8 fault with 0.3m lost core; Schistosity in places at 40°                                                             | 40 | bleached; calcite on fractures and weak pervasive calc                                                                                   | bl.ca     |                                                                                                                                                                                                                                     |
| 49.80  | 55.30  | alt 2g   | ALTERED AMYGULAR MAFIC FLOW: Mottled lt to med grey; fine even grained H=5; 2 to 4% 0.5 to 3mm qtz amygdules;                                                                                                                                  | Some indistinct banding at various angles, possible pillow selvages;                                                                                                                                             |    | mottled, bleached with mod pervasive calcite; 5% dark chl bands                                                                          | bl.ca chl |                                                                                                                                                                                                                                     |
| 55.30  | 66.15  | 5a       | MG GABBRO: Light grey; grain size 1 to 2 mm; distinctive texture with scattered randomly oriented, euhedral fsp laths up to 3mm; Intrusive bx in places with inclusion of earlier gabbro and following mafic dyke;                             | Upper ct sharpe and irregular at 30°; Dyke is med grained at contact with not chill; Lower ct intrusive bx at about 20°; 57.5 narrow shears at 05 with chl and minor calc. (Intrudes following amyg, mafic dyke) | 25 | bleaching; Minor calc-chl veins                                                                                                          |           | 63.4; isolated Po; 64.4 to 65.2: 5% Po-Py, minor Cp, isolated tr Sph (at 65m) as veins and blebs to 1cm; See assay sheet;                                                                                                           |
| 66.15  | 101.00 | 5f       | FG., MAFIC INTRUSIVE: Dark grey-green, fg (<0.5mm) with 1 to 2 % anhedral white fsp. Except for deformation, very massive and dyke-like; Top ct to 71m variably amygdular, up to 6%;<br>Remarks: 87 to 89.1: sheared mafic volcanic, xenolith; | Flow bands near upper contact; Moderately fractured; Narrow shears with qtz-carb-calc, minor chl at 15° to 35° at 74.3m; 79.3; 84.7; 87.2; 90.3m; Lower ct arbitrary, same intrusive;                            |    | 102(+/-); 2 to 4% stockwork, mm veinlets of qtz-carb, & qtz-calc. some 'sheeted' at 10 and 40 deg.                                       | qc        | 66.1 to 66.4: 3% blebs, veinlets Po tr Cp; 74.7 to 75.6: 0.5% Po + Py, tr Cp as veinlets up to 3mm with mm size non-fizzy carb veinlets; Isolated tr Py here and there;                                                             |
| 101.00 | 115.65 | 5p       | PORPHYRITIC, MG MAFIC INTRUSIVE: Med grey-green. Grain size about 1mm; randomly oriented, stubby fsp with interstitial mafics and 2 to 3%, 2mm white fsp phenoX; Very massive and dyke-like;                                                   | 112.3 to 113: Sheared, fg-looking section with calc. veining;                                                                                                                                                    |    | White qtz +/- calc & epidote, +/- chl: 6cm at 104.6; 5cm at 108.1 See structure;                                                         |           |                                                                                                                                                                                                                                     |
| 115.65 | 116.10 | F        | FAULT: Gouge, fine gravel-like bx                                                                                                                                                                                                              | Some lost core; Core angle of structure not apparent; No adjacent fracture zone;                                                                                                                                 |    |                                                                                                                                          |           |                                                                                                                                                                                                                                     |

| From   | To     | Symbol | Description                                                                                                                                                                     | Structure                                                                                                                                    | CA | Alteration, Veins                                                                                                                                                | Alt Sym | Mineralization                                                                      |
|--------|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|
| 116.00 | 137.50 | 5f     | <u>M.G. MAFIC INTRUSIVE</u> : Same as unit 101 to 115.65 except almost not fsp phenoX;                                                                                          | Competent with few fractures; Lower 'contact' arbitrary; becomes finer grained with fsp phenoXs; Following unit same intrusive;              |    | White qtz-calcite +/- epidote veins at 50° to 70° as follows: 5 cm at 118; 4 cm at 121.1; 2cm at 131; 13cm at 132.2; 6cm at 132.9; 11cm at 136.6; 6 cm at 137.3; |         | Isolated tr diss Py                                                                 |
| 137.50 | 144.00 | 5p,g   | <u>F.G. PORPHYRITIC, AMYGULAR MAFIC INTRUSIVE</u> : As above, 66.1 to 101; Dark grey-green, fg. 2% 1 to 2mm anhedral fsp. 141 to 144: moderately amygular;                      | Lower ct abrupt, but not defined; based on presence of fsp phenoX; See alteration;                                                           |    | Minor qtz-calcite +/- tr Py veinlets in shears at 10 to 30°                                                                                                      |         | isolated tr Py in mm grey qtz veinlets                                              |
| 144.00 | 149.80 | alt2d  | <u>ALTERED, PILLOWED, MAFIC FLOW</u> : Pale grey-green, fine, even grained; H=4.5 to 5; Go;od pillow selvages at top and banding downward probably also pillows                 | Lower ct uncertain; Section from 148.5 to 150.5 uniform with no volc struct or definite dyke features. Weak deformation at about 40°         |    | Mottled and strongly bleached; Minor calc veinlets;                                                                                                              | bl      |                                                                                     |
| 149.80 | 156.50 | 5f     | <u>M.G. MAFIC INTRUSIVE OR FLOW?</u> : Med grey, about 1mm grain size; Fine grained borders have remnant fsp phenocrysts; Speckled with fine mafics;                            | Possible sharp 'lower' contact coincides with end of fsp phenoX                                                                              |    | Weakly bleached; Sparse lt grey, mm calc veins                                                                                                                   |         | 150.3: minor Py in qtz-calc. veinlet;                                               |
| 156.50 | 162.90 | 2a     | <u>MASSIVE MAFIC VOLCANIC OR FG INTRUSIVE?</u> : Med grey green, fine, even grained; Some possible flow struct near top; Possible small amygdules here and there;               | Lower contact abrupt;                                                                                                                        |    | Weak, pervasive calc +/- chl; 4% calcite veinlets;                                                                                                               | chl, ca | isolated tr Py;; 162.8: 2mm veinlet Po along core;                                  |
| 162.90 | 176.10 | 2b,d   | <u>ALTERED, MAFIC FLOW BRECCIA</u> : Med grey-green, fine, even grained; Large rounded fragments with reaction rims; small pillow or pillow bx at top; Minor amygular sections; | Lower ct abrupt at 65--probable flow top; Narrow shears at 15 deg; H=5 to 35 where chl'd;                                                    |    | Sections (15%) of mod to strong chlMottled and weak bleaching; Minor calcite veining                                                                             | chl     | Isolated tr Py as film on fractures and with calc veins; 172.3: Isolated grains Po; |
| 176.10 | 190.80 | 2d,g   | <u>PILLOWED, AMYGULAR MAFIC FLOW</u> : As above; pillow selvages and/or coarse bx matrix; Sections of 3 to 4% qtz amygdules throughout;                                         | only weakly fractured;                                                                                                                       |    | Minor calcite veining; Isolated patches epidote at 178;                                                                                                          |         | Isolated tr Py;                                                                     |
| 190.80 | 197.00 | fr2d,g | <u>FR'D PILLOWED AMYG. MAFIC FLOW</u> : As above 176.1 to 190.8                                                                                                                 | Fract'd broken throughout with about 1.3m ground/lost core between 193.5 & 197; Some of broken core due to fractures at small angle to core; |    |                                                                                                                                                                  |         | tr Py as films on fractures;                                                        |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                                        | Structure                                                                                                                                                                                                                                               | CA  | Alteration, Veins                                                                                                                                                                                                                                | Alt Sym         | Mineralization                                                                                                                                                                 |
|--------|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 197.80 | 216.23 | 2a,g   | <u>MASSIVE, AMYGULAR MAFIC FLOW</u> : Med grey-green, fine even grained; Isolated pillow selvages in upper part; H=5;                                                                                                                                                                                                                                              | Upper ct arbitrary--could be part of same flow; Moderately deformed; Strong fracturing at 30°                                                                                                                                                           |     | 206.5 to 210: mm thick, 'sheeted' calcite veins at 30° & pervasive calc alteration; 3% calc veins overall; 212.7: 5 cm white qtz + calc; 213.6: 7cm white pink qtz + calc; 215.7 to 216.0 nearly solid white qtz, minor calc & chl at cts at 50, | ca              | 205.2 to 205.8: 0.5% Po as small blebs and diss and tr Cp at 205.3;                                                                                                            |
| 216.23 | 216.84 | 10     | <u>FRACTURED FG DIABASE</u> : Dk green/black; fresh, strongly magnetic;                                                                                                                                                                                                                                                                                            | Upper contact chilled at 45°; Lower ct broken; Numerous fractures at 45 to 75°                                                                                                                                                                          |     |                                                                                                                                                                                                                                                  |                 | 0.5% diss Py                                                                                                                                                                   |
| 216.84 | 251.25 | 5g     | <u>FG, AMYGULAR, MAFIC INTRUSIVE</u> : Med grey-green fine (<0.5mm) grained; texture not apparent; Up to 2% 1 to 2mm white anhedral fsp phenoX; 1 to 3% qtz and qtz-white fsp amygdules;                                                                                                                                                                           | 217.5 to 218.4: broken and 0.7m "washed" or ground core;                                                                                                                                                                                                |     | 1% thin calcite veinlets; White qtz-calc-chl veins: 5 cm at 239; 10cm at 241.2m; 236 to 251: pods, pervasive sections and veinlets epidote alteration;                                                                                           | epid            | isolated tr Py                                                                                                                                                                 |
| 251.25 | 281.80 | 10     | <u>DIABASE DYKE</u> : Dark green fine grained contacts and up to 2 to 3mm fsp laths in middle; fresh ophitic texture; finely speckled with magnetite; Strongly magnetic up to contacts;                                                                                                                                                                            | Both contacts well chilled at 60° deg; & fract'd and broken; 254 to 255: "Sable" lost core?? However, rock not highly fractured;                                                                                                                        | 60, | No alteration; Black chl films on fractures;                                                                                                                                                                                                     |                 | 0.5% interstitial Py                                                                                                                                                           |
| 281.80 | 360.45 | 5f/5p  | <u>FG to MG MAFIC INTRUSIVE</u> : Med grey green, fine with up to 4% fsp phenoX in upper part; Middle part is med grained (1 to 3 mm) and even grained or with porphyritic sections; Random-oriented, stubby fsp and fine speckling of mafics; Sparse qtz amygdules in upper part; moderately amygdular from 340 to 354 and abundant amygdules from 354 to 360.45; | 281.8 to 305: minor broken sections due to small angle fractures; Remainder with few fractures; Lower contact has long, gradual chill & increase in amygdules; Sharp. Lower contact from very amygdular dyke to massive flow rock & minor shear at 40°; |     | white qtz +/- lesser calc from mm to 15 cm most at about 60deg; make about 1% of unit; (Top to 312) weak epidote as fine veins and diffuse sections;                                                                                             | epid, qv        | 295.4: isol'd tr Py and Cp in mm red qv; 309.1: tr Py in mm qc veinlet; 342.4 to 346.6: Wide-spaced mm calcite veinlets with tr Cp; 354 to 355.6: tr Py in qv's and amygdules; |
| 360.45 | 365.00 | sh 2   | <u>DEFORMED MAFIC VOLCANIC</u> : As above; Typical colour & texture of mafic flow; Possible pillow selvage; Appears to be faulted septum between 2 intrusive; H=3.5 to 4                                                                                                                                                                                           | Lower contact obscured by broken core; Relatively massive flow above to amygdular, fsp-phyric dyke below; 361.9: 0.7m lost/ground core ('seam')-probably small fault; Shearing at 20°;                                                                  | 20  | 364.2 to 365.0: banded qtz-calcite vein along schistosity at 20° to 00°; Some weak pervasive chl?                                                                                                                                                | qtz-calc; calc; |                                                                                                                                                                                |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Structure                                                                                                                                                                                                                                       | CA      | Alteration, Veins                                                                                                                                                                                                                                                                                                                                                               | Alt Sym | Mineralization                                                                                                                                                                                                                                                                                                                                   |
|--------|--------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 365.00 | 373.25 | 5p,g   | <u>FG. PORPHYRITIC, AMYGULAR MAFIC DYKE:</u> As above; Med grey; up to 4 to 5% subhedral fsp phenoX; 3 to 4 % qtz amygd; H=5:                                                                                                                                                                                                                                                                                                                                                                                                                                              | Upper ct broken: Lower ct flow-banded and chilled at 40:                                                                                                                                                                                        | 40,     | minor hair line calc veinlets                                                                                                                                                                                                                                                                                                                                                   |         | isolated tr Py in amygdules;                                                                                                                                                                                                                                                                                                                     |
| 373.25 | 402.70 | 3c     | <u>QTZ PHYRIC, FELSIC VOLCANOCLASTIC:</u> Light grey, brownish-grey clasts in finer, fragmental, dk grey-black matrix; Clast from a few mm up to 6 cm; Clasts ragged and elongate; 3 to 4% 0.5 to 1mm qtz phenocrysts; H=5 to 6; Subconchoidal fracture; Thin-bedded, chert-like ash beds at 377.8 to 378.2; 383.1 to 383.7; 393.7 to 393.9m & 399.4 to 399.9<br><u>Remarks:</u> 373.6 to 374.4: altered fg mafic dykes up to 15 cm; 374.5 to 375.3: fg mafic dyke at 50 dg; 384.47 to 384.9:fg mafic dyke at 55 deg; 394.9 to 395.25: flow banded fg mafic dyke at 40deg; | Indistinct banding, fragment alignment, thin bedding in ash beds as follows: 378m, 15°; 380m, 20°; 383m, 15°; 388m, 20°; 394m, 20°; 399.6m, 08° deg; Only weakly fractured with prominent fracture at 00 to 10° deg;; Lower ct an intrusive bx; | 15, 20, | Outlines of clasts gradational due to alteration; Rounded white alteration spots in clasts up to 5mm (B. Atkinson, OGS Resident Geologist suggests these spots are andalusite.) Matrix very dark and may contain a little chl, but hardness about same as clasts; 388.8: isolated 10 cm dk chl'ic band; Minor chl with Py 390 to 394; Minor white qv up to 2 cm at about 70 deg |         | 378.6: tr Po;<br>381.8: isolated tr Sph;<br>383.8 to 384.2: Isolated small grains minor diss Po with tr Cp; 390.6 to 394:0.3% Py as films on fracture at 05 deg and diss'n with minor chl: 393.3: tr Sph: Isolated tr Py here & there; 395.6 to 396.6: tr to .03% Py; 397.4: tr Sph; 400.0 to 402.7: tr Py scattered grains & hairline veinlets; |
| 402.70 | 406.33 | 5g/3c  | <u>INTRUSIVE BRECCIA, AMYGULAR, FG, MAFIC DYKE &amp; FELSIC VOLCANIC;</u> med green fine, even grained & short fsp-phyric section; 4% fine qtz amygdules; flow bands 'wrap' around xenoliths; 20% xenoliths up to 20 cm of felsic volcanic as in prev. unit;                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                 |         | Short bleached sections +/- pervasive calcite; Felsic volc xenoliths have a few % rounded mm white spots (andalusite??); Minor chl streaks                                                                                                                                                                                                                                      | Chl     | Conc of Po +/-Py up to 0.5% / 5 cm; 403.9 to 404.6: 0.3% diss Po, Py with 0.1 diss Sph; 404.9: tr Sph; 404.6 & 405.9: tr Cp with Po; Most of Sph with chl streaks;                                                                                                                                                                               |
| 406.33 | 407.50 | 3b     | <u>FINE APHYRIC FELSIC TUFF:</u> Light grey fragments and some bed and dark green/black matrix/beds; Similar to unit 373.25 to 402.7 except aphyric; Thin-bedded ash tuff and fine fragmental;                                                                                                                                                                                                                                                                                                                                                                             | Contorted: 00 to 45° to 120°; Upper ct irregular intrusive bx;                                                                                                                                                                                  |         | Same as section 373.25 to 402.7;                                                                                                                                                                                                                                                                                                                                                |         |                                                                                                                                                                                                                                                                                                                                                  |
| 407.50 | 423.00 | 5g     | <u>FG. AMYGULAR MAFIC INTRUSIVE:</u> Med grey, fine, even grained, texture not apparent; 2%, 2 to 3mm qtz amygdules; At 408.5 and 411.4 to 412, and 420.8 to 421.1; pillow-like swirls and flow bands wrapping around fels volc inclusions and fine felsic fragments--appears to have intruded unconsolidated material;                                                                                                                                                                                                                                                    | Cts irregular and chilled at 45°; (Lithochem to check if transitional dyke or tholeiitic flow;)                                                                                                                                                 | 45,     | minor white spots and altered amygdules-either secondary fsp or possibly andalusite; 412.5: 3 cm qtz-calc vein with small blebs Po, tr Cp; Minor bleaching around inclusions;                                                                                                                                                                                                   |         | See alteration, veins;<br>422.6 to 422.9: 1% small Po blebs with tr Cp;                                                                                                                                                                                                                                                                          |
| 423.00 | 426.90 | 3c     | <u>QTZ PHYRIC, FELSIC VOLCANOCLASTIC:</u> Similar to unit 373.25 to 402.7; 1% 0.5 to 1mm qtz phenoX; Mostly lapilli size in fine fragmental matrix with a few clasts to 6cm.<br><u>Remarks:</u> 425.6: irregular, fg mafic dykes;                                                                                                                                                                                                                                                                                                                                          | irregular cts at 40° and 20°; wavy banding and fragment elongation at cts parallel to flow bands in adjacent intrusive;                                                                                                                         |         | 1% of unit, clasts only white 'pop-corn' type alteration (andalusite?)-spots to 5mm; Spec. for thin section;                                                                                                                                                                                                                                                                    |         | No sulphides seen                                                                                                                                                                                                                                                                                                                                |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                                                                                                               | Structure                                                                                                                                                                                                                                                   | CA        | Alteration, Veins                                                                                                                                                                                                    | Alt Sym | Mineralization                                                                                                                                                                                                    |
|--------|--------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 426.90 | 428.80 | 5g     | <u>FG, AMYGULAR, MAFIC INTRUSIVE</u> : As above 407.5 to 423;                                                                                                                                                                                                                                                                                                                                                                             | upper contact chilled and irregular at 20°; :lower ct chilled at 75° & with flow bands;                                                                                                                                                                     |           |                                                                                                                                                                                                                      |         | tr to 0.2% Po +/- Py in amygdules and qtz-calcite-chl veinlets;<br>427.6:<br>tr Cp with Po;                                                                                                                       |
| 428.80 | 440.60 | 3c     | <u>QTZ PHYRIC, FELSIC VOLCANOCLASTIC</u> : As above, 373.25 to 402.7; Light grey clasts in fg. Dk green, fragmental matrix; Clasts up to 5cm and sparse long, wispy ones to 10cm; 3% 0.5 to 2mm qtz phenocrysts; :Unit definitely pyroclastic (or tuff) rather than a flow bx;                                                                                                                                                            | Strong primary alignment of clasts (or foliation?) at 40° to 10° : Wispy clasts aligned parallel to intrusive contacts, suggests unconsolidated when intruded by mafic dykes; Broken sections due to fractures at small angles to core from 437.8 to 439.1; | 40,<br>10 | Weak chl as wisps here and there in matrix; (most of matrix very hard and dk colour from fg nature;); 428.8 to 431: 1 to 2% mm size white spots in clast-- possibly andalusite; Elsewhere very minor white spotting; | chl,    | 433.2 to 436.2; 0.5 % Py as blebs to 1 cm and diss'n, incl 4% Py over 0.15m at 435.0<br>438.0 to 438.3: tr Py films on fract's: 438.3 to 439.9: 0.5 % Po tr Cp in blebs up to 1 cm; 439.9 to 440.6: tr Po, tr Cp; |
| 440.60 | 453.70 | 2g,b   | <u>MASSIVE, AMYGULAR TO BRECCIATED, MAFIC FLOW OR INTRUSIVE?</u> : Med grey-green, fine, even grained; h= 4.5: Top 2.5m with 4% 1 to 4mm qtz amyg; rest with 1 to 2\$ fine amyg. 4.8 to 448.4:coarse, angular breccia with fragments up to <15cm; Massive sections similar to amyg, mafic intrusives above; Uncertain if flow or dyke; See WRA, if transitional to calc alkalic could be intrusive and if tholeiitic likely to be a flow; | Upper contact bleached and sharp at 20°; Lower contact put at first apparent pillow selvage; (same rock type above and below ct;                                                                                                                            |           | Minor calcite+/-qtz veinlets;                                                                                                                                                                                        |         | 440.6 to 444.0: 0.3% Po as small blebs and in; 441.2: isolated tr Sph; 444.0 to 444.7: 1% diss Po with tr Cp: 447.7 to 457.6: tr Py with calc veins and on fractures with isolated tr Po;                         |
| 453.7  | 457.6  | 2d,g   | <u>PILLOWED, AMYGULAR, MAFIC FLOW</u> : As above:Fine, even grained; Pillow selvages, one at 455m with fairly definite hyaloclastite; Sparse 1mm amyg.                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                             |           | Minor chl in amygdules and as mm spots surrounding Po grains; Minor short sections with 2mm white spots- seem to be fsp and qtz                                                                                      |         | tr Po as scattered grains to 2mm; 454 to 454.4; Minor Py films of fracture;                                                                                                                                       |
| 457.6  | 461.8  | sh2d   | <u>SHEARED, PILLOWED MAFIC VOLC</u> : As above; Small amyg;                                                                                                                                                                                                                                                                                                                                                                               | Numerous calc-filled fractures, cleavage/weak schistosity at 35°; Same flow as adjacent units;                                                                                                                                                              |           | 5%, mostly mm calcite veinlets; 461.2 to 461.4: banded calcite-qtz-white mica selvage, tr Py vein along cleavage; Some bleaching                                                                                     | Ca, bl  | tr to 0.2% Py as diss and in calc veinlets; tr Po as scattered grains with tr Cp here and there;                                                                                                                  |
| 461.8  | 469.1  | 2d,g   | <u>PILLOWED, AMYGULAR, MAFIC FLOW</u> : As above; Numerous pillow selvages marked by bleaching, chl, fine bx and at bottom flow bands/pillow ribs;                                                                                                                                                                                                                                                                                        | 1st contact fairly abrupt, but likely same flow above and below:                                                                                                                                                                                            |           | Hard white to light grey 2mm spots forming clusters, strands 30 cm mass at 468.5m; probably fsp or Al-silicate; Weak chl alteration as mm spots; 468.8: 7cm grey qtz-chl-calc with blebs Po and Cp;                  |         | tr Po as isolated grains; See alteration/veins; 1% Cp /5 cm at 468.8m;                                                                                                                                            |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                 | Structure                                                                           | CA  | Alteration, Veins                                                                                                                                                                                                                  | Alt Sym | Mineralization                                                                                                                                                                                                                        |
|--------|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 469.1  | 492.1  | 2g     | <u>MASSIVE AMYGULAR MAFIC FLOW</u> : Med grey, fine, even grained; 469.1 to 481: 3% qtz amygdules to 5mm; Downward 1 to 2% 1 to 2mm amygd.                                                                                                                                                                                                  | 2nd contact sharp and irregular                                                     |     | 483 to 492: chl in amygdules; Scattered qtz-calc+/- chl veins 1 to 3 cm; here and there with isolated Po grains; Top to 481: up to 1 white mineral in amyg. (fsp-qtz or andalusite) and indistinct lt grey 3mm spots and mottling; | chl     | 471.2 to 471.4: minor Cp, Po in qtz-calc vein and lt grey alt. Also minor Py diss in lt grey alt; 480.8: mm to hairline veinlet chl-Po-Cp; 490.0: minor Py films on fractures; 490.8 1 to 4mm blebby Po veinlet with sparse blebs Cp; |
| 492.1  | 493.54 | 3c     | <u>QTZ-PHYRIC FELSIC TUFF / TUFF BX</u> : Light to med grey; fine grained; Phenocrysts: 2%, 0.5 to 1mm qtz and in places up to 2%, 2mm white fsp; Mostly lapilli to fine tuff with a few angular clasts up to 10 cm. A few aphyric clasts; H=5.5 to 6;                                                                                      | 1st contact at 70°; 2nd contact sharp at 30°; Long axis of some of clasts also 30°; | 30, | Minor white alteration of some of the clasts, - fsp or andalusite??<br>Minor chl around Po blebs;                                                                                                                                  |         | 493.0 to 493.5: 3 to 4% Po with tr Cp as blebs, diss'n, hairline veinlets and impregnations in some clasts;                                                                                                                           |
| 493.54 | 513.4  | 2g     | <u>AMYGULAR MAFIC FLOW (OR INTRUSIVE)</u> : Med grey, fine mostly even grained; pods and short sections with 1 to 2 mm fsp phenocrysts; Variably amygdular with 0.5 to 5mm with qtz and qtz-fsp? From <1% amygdules to short sections with >10% amygd. Lower part very fg, & relatively hard and resilient--could be calc-alkalic andesite; | 1st contact (base of flow?) appears chilled, and with parallel flow bands at 30°;   |     | Minor patches, veinlets hard, buff alteration (no reaction to conc HCl)- fine fsp ??; Sparse, scattered qtz-calc-chl veins up to 3cm;                                                                                              |         | 493.9 to 496.3: tr Py, Po as scattered grains & isolated tr Cp in calc-qtz veinlets; 496.3 to 511.3: isolated tr Py diss and in fractures; 411.3 to 411.9: tr Py and Cp; 411.9 to 513.4: 0.5% finely diss Py;                         |
| 513.4  | 516.3  | alt2   | <u>ALTERED MAFIC VOLCANIC</u> : Similar texture to above unit; Amygdular;                                                                                                                                                                                                                                                                   | 1st contact arbitrary; Strong fractured with broken sections;                       |     | 40% affected by strong buff colour alteration as pods, short sections veins; Appears to be mainly fg fsp;                                                                                                                          | fsp     | Py as diss, scattered small blebs; tr to 0.5 %                                                                                                                                                                                        |
| 516.3  | 553.5  | 10     | <u>COARSE-GRAINED DIABASE</u> : Med grey-green; fg near contact, to cg in remainder; fresh diabasic texture; strongly magnetic except in top 0.5m; finely speckled with magnetite; Slightly finer at end of hole, suggests close (5 to 6m) to east contact of dyke;                                                                         | Contact chilled at 40; 539.2 to 539.8: Numerous fractures with carb at 45;          |     | Minor, mm, pink carb veinlets as noted in structure;                                                                                                                                                                               |         | 3% Py over 15 cm at top contact; Elsewhere tr interstitial Py;                                                                                                                                                                        |
|        | 553.5  |        | END OF HOLE                                                                                                                                                                                                                                                                                                                                 |                                                                                     |     |                                                                                                                                                                                                                                    |         |                                                                                                                                                                                                                                       |

A.W. Beecham  
25-Mar-09

Sample Sheet: W-08-18

| Sample Number | From m | To m   | Sample Length | Est Min % |     |     |     | Au g/tonne | Au Check | Ag ppm | Cu ppm | Pb ppm | Zn ppm |  | Remarks                |
|---------------|--------|--------|---------------|-----------|-----|-----|-----|------------|----------|--------|--------|--------|--------|--|------------------------|
|               |        |        |               | Po        | Py  | Cp  | Sph |            |          |        |        |        |        |  |                        |
| 3582          | 42.10  | 43.20  | 1.10          | 1         | 0.5 | tr  |     | 22         |          | 0.3    | 63     | 1      | 153    |  |                        |
| 3583          | 43.20  | 44.20  | 1.00          | 1         | tr  | tr  |     | NIL        |          | 0.2    | 78     | 1      | 28     |  |                        |
| 3584          | 44.20  | 45.20  | 1.00          | 0.5       | tr  | tr  |     | 24         |          | 0.2    | 74     | 1      | 43     |  |                        |
| 3585          | 45.20  | 46.20  | 1.00          | 0.5       | tr  |     |     | NIL        |          | 0.2    | 73     | 1      | 61     |  |                        |
| 3586          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3587          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3588          | 64.30  | 65.20  | 0.90          | 3         | 2   | 0.3 | tr  | 7          |          | 0.4    | 241    | 16     | -      |  |                        |
| 3589          | 65.20  | 66.10  | 0.90          |           |     |     |     | NIL        |          | 0.2    | 64     | 2      | 139    |  |                        |
| 3590          | 66.10  | 66.50  | 0.40          | 4         |     | tr  |     | 22         |          | 0.2    | 80     | 1      | 98     |  |                        |
| 3591          | 74.70  | 75.70  | 1.00          | 0.5       | 0.2 | tr  |     | 9          |          | 0.2    | 96     | 1      | 88     |  |                        |
| 3592          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3593          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3594          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3595          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3596          | 215.60 | 216.10 | 0.50          |           |     |     |     | 46         |          | 0.2    | 11     | 1      | 35     |  | qv for Au              |
| 3597          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3598          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3599          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3600          | 364.10 | 365.00 | 0.90          |           |     |     |     | 79         |          | 0.2    | 22     | 1      | 39     |  | sample qtz-calc for Au |
| 3601          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3602          | 383.70 | 384.40 | 0.70          | 0.2       |     | tr  |     | 3          |          | 0.2    | 30     | 1      | 23     |  |                        |
| 3603          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3604          | 403.80 | 405.00 | 1.20          | 0.2       | 0.1 | tr  | tr  | 14         |          | 0.2    | 66     | 1      | 208    |  |                        |
| 3605          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3606          |        |        |               |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3607          | 438.00 | 439.00 | 1.00          | 0.5       | tr  | tr  |     | 17         |          | 0.3    | 76     | 1      | 25     |  |                        |
| 3608          | 439.00 | 439.90 | 0.90          | 0.5       |     | tr  |     | 12         |          | 0.2    | 18     | 1      | 37     |  |                        |
| 3609          | 439.90 | 440.55 | 0.65          | tr        |     | tr  |     | 5          |          | 0.2    | 14     | 1      | 25     |  |                        |
| 3610          | 440.55 | 442.00 | 1.45          | 0.3       |     | tr  | tr  | 5          | 3        | 0.2    | 69     | 1      | 66     |  |                        |
| 3611          | 442.00 | 443.50 | 1.50          | 0.3       |     | tr  |     | 12         |          | 0.2    | 71     | 1      | 48     |  |                        |
| 3612          | 443.50 | 444.80 | 1.30          | 0.7       |     | tr  |     | 7          |          | 0.2    | 114    | 1      | 91     |  |                        |
| 3613          |        |        | 0.00          |           |     |     |     |            |          |        |        |        |        |  |                        |
| 3614          |        |        | 0.00          |           |     |     |     |            |          |        |        |        |        |  |                        |
| 3615          |        |        | 0.00          |           |     |     |     |            |          |        |        |        |        |  | Lithochem Sample       |
| 3616          | 492.90 | 493.60 | 0.70          | 3         |     | tr  |     | 3          |          | 0.2    | 89     | 1      | 35     |  |                        |



| Sample Number | From m | To m   | Sample Length | Est Min % |     |    |     | Au g/tonne | Au Check | Ag ppm | Cu ppm | Pb ppm | Zn ppm |  | Remarks          |
|---------------|--------|--------|---------------|-----------|-----|----|-----|------------|----------|--------|--------|--------|--------|--|------------------|
|               |        |        |               | Po        | Py  | Cp | Sph |            |          |        |        |        |        |  |                  |
| 3617          |        |        | 0.00          |           |     |    |     |            |          |        |        |        |        |  | Lithochem Sample |
| 3618          | 514.20 | 515.20 | 1.00          |           | 0.3 |    |     | 3          |          | 0.3    | 145    | 1      | 180    |  |                  |
| 3619          | 515.20 | 516.30 | 1.10          |           | 0.3 |    |     | NIL        |          | 0.2    | 44     | 1      | 56     |  |                  |

Western Kidd Resources Inc.

Drill Log  
Lithochemistry

DH # W-08-18

Loveland Township

DH: W-06-18 Lithochemistry

Certificates 8W2142RL & 8W2143RL

| Sample # | From m | To m   | SiO2 % | Al2O3 % | Fe2O3 % | CaO % | MgO % | Na2O % | K2O % | TiO2 % | P2O5 % | MnO % | BaO % | Cr2O3 % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %  | Zr/Y |
|----------|--------|--------|--------|---------|---------|-------|-------|--------|-------|--------|--------|-------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|------|------|
| 3586     | 53.00  | 54.00  | 39.75  | 16.79   | 9.73    | 14.68 | 4.19  | 3.06   | 0.55  | 1.18   | 0.21   | 0.15  | <0.01 | 0.03    | <5     | 35     | <5     | <10    | 40     | <100   | 29     | 125    | 201   | 25    | 11     | 108    | 8.99  | 99.37   | 1.46 | 0.03 | 4.32 |
| 3587     | 61.00  | 62.00  | 49.62  | 19.32   | 8.25    | 8.40  | 3.24  | 5.25   | 0.87  | 1.00   | 0.18   | 0.13  | 0.01  | 0.03    | <5     | 43     | 26     | <10    | 72     | <100   | 25     | 129    | 180   | 21    | 54     | 90     | 2.70  | 99.06   | 0.16 | 0.21 | 4.29 |
| 3588     | 64.30  | 65.20  | 45.13  | 18.24   | 12.94   | 10.67 | 3.62  | 2.72   | 0.93  | 0.96   | 0.19   | 0.12  | 0.02  | 0.03    | <5     | 67     | 158    | <10    | 72     | <100   | 24     | 155    | 174   | 20    | 1283   | 90     | 3.61  | 99.41   | 0.05 | 2.23 | 4.50 |
| 3589     | 65.20  | 66.10  | 45.62  | 19.38   | 10.05   | 10.61 | 4.19  | 3.12   | 1.40  | 0.96   | 0.17   | 0.12  | 0.03  | 0.03    | <5     | 35     | <5     | <10    | 66     | <100   | 24     | 159    | 168   | 23    | 127    | 93     | 3.44  | 99.2    | 0.16 | 0.29 | 4.04 |
| 3590     | 66.10  | 66.50  | 49.37  | 16.72   | 10.83   | 9.24  | 5.20  | 3.10   | 0.60  | 0.85   | 0.15   | 0.13  | 0.01  | 0.03    | <5     | 36     | 27     | <10    | 31     | <100   | 22     | 136    | 165   | 29    | 199    | 133    | 2.85  | 99.17   | 0.1  | 0.38 | 4.59 |
| 3591     | 74.70  | 75.70  | 53.72  | 14.46   | 13.12   | 6.76  | 3.12  | 2.76   | 0.36  | 1.10   | 0.28   | 0.14  | 0.01  | 0.01    | <5     | 43     | 20     | <10    | <5     | <100   | 18     | 114    | 72    | 31    | 57     | 151    | 3.46  | 99.34   | 0.29 | 0.76 | 4.87 |
| 3592     | 109.00 | 110.00 | 50.30  | 16.39   | 10.14   | 9.45  | 6.46  | 2.64   | 0.81  | 0.72   | 0.13   | 0.12  | 0.02  | 0.02    | <5     | 35     | 21     | <10    | 97     | <100   | 20     | 130    | 145   | 17    | 52     | 89     | 2.45  | 99.73   | 0.03 | 0.02 | 5.24 |
| 3593     | 147.00 | 148.00 | 44.82  | 17.03   | 9.85    | 14.63 | 4.04  | 2.07   | 0.26  | 1.04   | 0.21   | 0.12  | <0.01 | 0.02    | <5     | 37     | <5     | <10    | 17     | <100   | 24     | 105    | 177   | 21    | 89     | 100    | 5.44  | 99.6    | 0.82 | 0.02 | 4.76 |
| 3594     | 179.00 | 180.00 | 52.48  | 15.93   | 8.98    | 9.44  | 4.08  | 5.02   | 0.23  | 1.11   | 0.22   | 0.12  | <0.01 | 0.03    | <5     | 38     | <5     | <10    | 16     | <100   | 26     | 52     | 177   | 22    | 27     | 106    | 1.75  | 99.43   | 0.13 | 0.04 | 4.82 |
| 3595     | 214.60 | 215.60 | 48.80  | 16.20   | 10.49   | 7.82  | 5.26  | 4.98   | 0.68  | 1.18   | 0.24   | 0.15  | 0.01  | 0.02    | <5     | 43     | 14     | <10    | 14     | <100   | 28     | 93     | 185   | 24    | 80     | 112    | 2.61  | 98.51   | 0.12 | 0.06 | 4.67 |
| 3596     | 215.60 | 216.10 | 69.31  | 8.92    | 4.76    | 6.58  | 2.29  | 2.88   | 0.23  | 0.58   | 0.11   | 0.07  | <0.01 | 0.02    | <5     | 22     | <5     | <10    | <5     | <100   | 15     | 63     | 89    | 13    | 69     | 55     | 2.98  | 98.76   | 0.34 | 0.01 | 4.23 |
| 3597     | 235.00 | 236.00 | 50.42  | 16.71   | 9.73    | 9.01  | 5.72  | 3.64   | 0.68  | 0.73   | 0.15   | 0.12  | 0.02  | 0.02    | <5     | 33     | <5     | <10    | 55     | <100   | 21     | 146    | 149   | 18    | 19     | 91     | 2.43  | 99.46   | 0.01 | 0.02 | 5.06 |
| 3598     | 300.00 | 301.00 | 51.24  | 16.24   | 9.88    | 9.20  | 5.13  | 3.07   | 0.73  | 0.81   | 0.15   | 0.14  | 0.02  | 0.03    | <5     | 42     | 22     | <10    | 83     | <100   | 24     | 137    | 184   | 19    | <5     | 88     | 3.03  | 99.72   | 0.01 | 0.01 | 4.63 |
| 3599     | 350.00 | 351.00 | 51.47  | 16.14   | 9.84    | 7.74  | 6.24  | 2.60   | 0.78  | 0.84   | 0.16   | 0.12  | 0.02  | 0.02    | <5     | 42     | 11     | <10    | 76     | <100   | 24     | 134    | 195   | 20    | <5     | 92     | 3.94  | 99.97   | 0.01 | 0.01 | 4.60 |
| 3600     | 364.10 | 365.00 | 51.88  | 8.40    | 5.43    | 13.77 | 3.40  | 0.32   | 2.19  | 0.41   | 0.08   | 0.09  | 0.05  | 0.03    | <5     | 27     | <5     | <10    | 44     | <100   | 13     | 19     | 97    | 13    | <5     | 44     | 13.27 | 99.34   | 2.61 | 0.01 | 3.38 |
| 3601     | 376.00 | 377.00 | 72.45  | 12.48   | 2.66    | 1.75  | 0.97  | 4.28   | 1.31  | 0.15   | 0.01   | 0.03  | 0.05  | 0.03    | <5     | 6      | <5     | <10    | <5     | <100   | <5     | 71     | <5    | 86    | <5     | 283    | 2.42  | 98.63   | 0.03 | 0.01 | 3.29 |
| 3602     | 383.70 | 384.40 | 74.54  | 11.29   | 2.91    | 1.52  | 0.68  | 3.47   | 1.84  | 0.14   | 0.01   | 0.02  | 0.07  | 0.04    | <5     | 5      | <5     | <10    | <5     | <100   | <5     | 70     | <5    | 80    | <5     | 262    | 2.53  | 99.09   | 0.02 | 0.08 | 3.28 |
| 3603     | 398.00 | 399.00 | 73.85  | 11.86   | 2.68    | 1.86  | 0.78  | 2.93   | 2.53  | 0.14   | 0.01   | 0.03  | 0.10  | 0.03    | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 66     | <5    | 86    | <5     | 273    | 1.68  | 98.52   | 0.01 | 0.02 | 3.17 |
| 3604     | 403.80 | 405.00 | 53.09  | 16.05   | 9.50    | 5.46  | 4.75  | 2.57   | 3.64  | 0.89   | 0.16   | 0.14  | 0.09  | 0.03    | <5     | 38     | 13     | <10    | 66     | <100   | 23     | 100    | 171   | 28    | 173    | 104    | 3.07  | 99.51   | 0.05 | 0.11 | 3.71 |
| 3605     | 413.00 | 414.00 | 52.29  | 16.01   | 9.53    | 9.29  | 5.25  | 2.78   | 0.88  | 0.83   | 0.15   | 0.12  | 0.02  | 0.03    | <5     | 38     | 9      | <10    | 79     | <100   | 24     | 145    | 183   | 20    | 38     | 90     | 2.49  | 99.74   | 0.03 | 0.12 | 4.50 |
| 3606     | 435.00 | 436.00 | 73.54  | 11.97   | 2.95    | 1.70  | 0.34  | 2.37   | 4.10  | 0.14   | 0.01   | 0.04  | 0.09  | 0.03    | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 49     | <5    | 86    | <5     | 280    | 1.35  | 98.67   | 0.01 | 0.15 | 3.26 |
| 3607     | 438.00 | 439.00 | 73.10  | 12.09   | 3.13    | 2.21  | 0.75  | 3.34   | 1.82  | 0.15   | 0.01   | 0.03  | 0.06  | 0.03    | <5     | 7      | 47     | <10    | <5     | <100   | <5     | 68     | <5    | 88    | <5     | 292    | 2.00  | 98.78   | 0.07 | 0.23 | 3.32 |
| 3608     | 439.00 | 439.90 | 73.88  | 11.92   | 3.34    | 1.79  | 0.59  | 3.10   | 2.35  | 0.14   | 0.01   | 0.04  | 0.08  | 0.04    | <5     | 6      | <5     | <10    | <5     | <100   | <5     | 71     | <5    | 86    | <5     | 276    | 1.55  | 98.86   | 0.01 | 0.16 | 3.21 |
| 3609     | 439.90 | 440.55 | 73.99  | 12.07   | 2.89    | 2.43  | 0.78  | 3.51   | 1.52  | 0.15   | 0.01   | 0.03  | 0.06  | 0.04    | <5     | 5      | <5     | <10    | <5     | <100   | <5     | 86     | <5    | 84    | <5     | 287    | 1.34  | 98.86   | 0.03 | 0.07 | 3.42 |
| 3610     | 440.55 | 442.00 | 52.56  | 16.26   | 9.38    | 8.89  | 4.61  | 2.21   | 1.45  | 0.82   | 0.16   | 0.14  | 0.03  | 0.02    | <5     | 40     | 77     | <10    | 80     | <100   | 24     | 142    | 186   | 21    | <5     | 96     | 2.93  | 99.53   | 0.04 | 0.16 | 4.57 |
| 3611     | 442.00 | 443.50 | 52.03  | 16.36   | 10.14   | 8.20  | 5.32  | 2.84   | 1.15  | 0.84   | 0.16   | 0.14  | 0.03  | 0.02    | <5     | 41     | 56     | <10    | 73     | <100   | 24     | 128    | 186   | 21    | <5     | 93     | 2.32  | 99.6    | 0.03 | 0.14 | 4.43 |
| 3612     | 443.50 | 444.80 | 51.46  | 15.90   | 11.68   | 7.45  | 5.59  | 2.63   | 1.00  | 1.01   | 0.19   | 0.16  | 0.03  | 0.03    | <5     | 46     | 82     | <10    | 57     | <100   | 27     | 123    | 205   | 24    | <5     | 104    | 2.80  | 100     | 0.04 | 0.38 | 4.33 |
| 3613     | 450.00 | 451.00 | 51.46  | 15.48   | 10.42   | 7.40  | 5.21  | 4.01   | 0.62  | 1.25   | 0.24   | 0.16  | 0.02  | 0.02    | <5     | 49     | 22     | <10    | 30     | <100   | 31     | 107    | 237   | 27    | <5     | 111    | 2.79  | 99.15   | 0.06 | 0.09 | 4.11 |
| 3614     | 487.00 | 488.00 | 51.67  | 16.47   | 8.76    | 7.51  | 6.93  | 2.34   | 1.46  | 0.85   | 0.15   | 0.11  | 0.05  | 0.03    | <5     | 37     | 8      | <10    | 81     | <100   | 25     | 121    | 198   | 20    | <5     | 93     | 3.56  | 99.96   | 0.02 | 0.02 | 4.65 |
| 3615     | 492.15 | 492.90 | 66.39  | 14.03   | 5.40    | 3.40  | 2.99  | 2.03   | 1.33  | 0.27   | 0.03   | 0.06  | 0.06  | 0.03    | <5     | 13     | <5     | <10    | 8      | <100   | 7      | 76     | 24    | 88    | 5      | 301    | 3.10  | 99.17   | 0.03 | 0.02 | 3.42 |

Loveland Township

| Sample # | From m | To m   | SiO2 % | Al2O3 % | Fe2O3 % | CaO % | MgO % | Na2O % | K2O % | TiO2 % | P2O5 % | MnO % | BaO % | Cr2O3 % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %  | Zr/Y |
|----------|--------|--------|--------|---------|---------|-------|-------|--------|-------|--------|--------|-------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|------|------|
| 3616     | 492.90 | 493.60 | 71.56  | 11.46   | 4.53    | 5.34  | 1.33  | 1.44   | 0.71  | 0.24   | 0.03   | 0.04  | 0.02  | 0.04    | <5     | 13     | 77     | <10    | 13     | <100   | 6      | 64     | 23    | 65    | <5     | 223    | 1.72  | 98.51   | 0.03 | 0.42 | 3.43 |
| 3617     | 500.00 | 501.00 | 50.53  | 16.68   | 10.15   | 9.66  | 4.84  | 3.91   | 0.25  | 0.83   | 0.15   | 0.15  | 0.01  | 0.03    | <5     | 41     | 30     | <10    | 82     | <100   | 25     | 122    | 188   | 20    | <5     | 92     | 2.38  | 99.63   | 0.03 | 0.02 | 4.60 |
| 3618     | 514.20 | 515.20 | 53.32  | 16.54   | 8.10    | 11.00 | 2.76  | 3.85   | 0.08  | 0.92   | 0.17   | 0.14  | <0.01 | 0.04    | <5     | 41     | 103    | <10    | 60     | <100   | 24     | 119    | 166   | 24    | 178    | 97     | 2.47  | 99.48   | 0.12 | 0.26 | 4.04 |
| 3619     | 515.20 | 516.30 | 50.80  | 16.86   | 9.22    | 8.57  | 3.81  | 4.42   | 0.18  | 0.97   | 0.19   | 0.16  | <0.01 | 0.03    | <5     | 38     | 12     | <10    | 67     | <100   | 27     | 90     | 195   | 24    | <5     | 100    | 4.00  | 99.26   | 0.21 | 0.16 | 4.17 |

**GEOLOGICAL LEGEND**

- 10 Late diabase dykes, Matachewan Type;
  
- 8 *Altered and Metamorphosed Rocks***
- 8 (a) Carbonate rock                       (c) Chlorite-carbonate rock
  
- 6 *Granitoid Intrusives***
- (a) Granite
- (b) Granodiorite
- (c) Quartz Monzonite
  
- 5 *Mafic Intrusives***
- (a) Gabbro                                       (f) fine to medium grained mafic
- (d) Diorite                                       (p) med. grained feldspar-phyric
- (g) Amygular mafic dyke
  
- 4 *Sediments***
- (a) Argillite                                       (s) Siltstone +/- argillite
- (c) Chert                                               (e) Sulphide-rich exhalites
- (g) Graphitic argillite/siltstone               (l) Feldspathic quartzites
  
- 3 *Intermediate to Felsic Volcanics & Subvolcanic Intrusives***
- (a) Rhyolite flows
- (b) Thin bedded felsic/intermediate tuff
- (c) Quartz (+/- feldspar)phyric tuffs
- (d) Quartz (+/- feldspar)phyric (sub-volcanic) intrusives
- (e) Quartz (+/- feldspar)phyric flows
- (f) Felsic tuff, tuff breccia (non phyric)
- (g) Feldspar crystal tuff, tuff bx
- (h) Feldspar porphyry intrusives
- (k) fg. felsic/intermed. dyke
  
- 2 *Mafic Volcanics***
- (a) Massive                                       (b) Breccia, flow bx
- (c) Coarse grained                               (d) Pillowed flows
- (e) Variolitic (spherulitic) flows               (f) Feldspar phyric (andesite)
- (l) Diabasic flow                                 (g) Amygular flow

**ABBREVIATIONS**

- alt                      altered
  
- bdd                      banded
- bl                        bleached
- Cp                        chalcopyrite
- chl                        chlorite, chloritic
- ep                        epidote
  
- fg; cg                    fine & coarse grained
- gf                        graphite , graphitic
  
- mt                        magnetite
  
- Po                        pyrrhotite
  
- Py                        pyrite
- qv                        quartz vein
  
- Sph                        sphalerite
- ser                        sericite
- sh                        sheared

**Western Kidd Resources Inc.**  
 Loveland Township

**Drill Log**

DH. W-06-19

| DH#     | Northg | Eastg  | Elev | Az                                | Dip | UTM Base | UTME   | UTM N   | UTM E | Length | Claim #s | Drilled By        | Logged By    |
|---------|--------|--------|------|-----------------------------------|-----|----------|--------|---------|-------|--------|----------|-------------------|--------------|
| W-08-19 | 9898.9 | 4985.1 |      |                                   | 67  | NAD 27   | 452838 | 5388909 |       | 912.0  | 3019589  | Forage Lafrenière | A.W. Beecham |
|         |        |        |      | grid East                         |     | NAD83    | 452855 | 5389128 |       | 325    | 1219030  |                   |              |
|         |        |        |      | Point 5m +/- grid E<br>of collar; |     | NAD 27   | 452843 | 5388910 |       | 325    |          |                   |              |
|         |        |        |      |                                   |     | NAD83    | 452860 | 5389129 |       |        |          |                   |              |

Down Hole Surveys

| Depth  | Az. Mag | Az. Corr | Dip  | Remarks          |
|--------|---------|----------|------|------------------|
| collar | 266.0   | 255.5    | 67.0 | layout           |
| 12     | 272.1   | 261.6    | 65.1 | Flexit           |
| 15     | 273.8   | 263.3    | 65.2 | Flexit           |
| 51     | 273.9   | 263.4    | 65.3 | Flexit           |
| 102    | 273.4   | 262.9    | 65.2 | Flexit           |
| 153    | 272.8   | 262.3    | 65.4 | Flexit           |
| 204    | 273.6   | 263.1    | 65.2 | Flexit           |
| 255    | 272.5   | 262.0    | 65.3 | Flexit           |
| 306    | 273.9   | 263.4    | 65.6 | Flexit           |
| 357    | 271.5   | 261.0    | 65.3 | Flexit           |
| 408    | 271.7   | 261.2    | 64.8 | Flexit           |
| 459    | 273.3   | 262.8    | 65.1 | Flexit           |
| 510    | 273.3   | 262.8    | 64.8 | Flexit           |
| 561    | 266.7   | 256.2    | 64.1 | Flexit magnetic; |
| 612    | 273.3   | 262.8    | 64.1 | Flexit           |
| 663    | 271.0   | 260.5    | 63.9 | Flexit           |
| 714    | 276.1   | 265.6    | 63.6 | Flexit           |
| 765    | 279.7   | 269.2    | 64.3 | Flexit           |
| 807    | 277.8   | 267.3    | 63.8 | Flexit           |
| 858    | 281.3   | 270.8    | 64.0 | Flexit           |

Dates: Started 30-May-08  
 Completed 13-Jun-08  
 Logging completed 07-Jul-08  
 Up-dates 21-Jul-08  
Objective: Test strong, deep Titan 24, MT-2  
 magneto-telluric Anomaly on line 9900N;

Samples: 3620 3678

Temporary Black Pearl core shed, Haileybury Rd,  
 Core Storage: Porcupine, ON

Permanent storage: (to be)  
 Nighthawk Timber depot, Stringer Road  
 Shaw Township, (south of S.Porcupine);

Contents:

|                      |            |
|----------------------|------------|
| Collar sheet         | 1 pg       |
| Lithology            | pg 1 to 12 |
| Down hole coord calc | 1 pg       |
| Assay Sheet          | 2 pg       |
| Lithochem.           | 1pg        |
| Geological Legend    | 1 pg       |

## DOWN HOLE CO-ORDINATE CALCULATIONS

PROPERTY: *Meunier, Loveland Township, Timmins* System : SI

Drill Hole Number: **W-08-19** Sect. Azim. 257.50 Degrees UTM north

| Data Depth | Plotting Point | Increm'l Length | "L" corr'd for sign | Dip a  | Azim of Segm't | Angle to Sec b | Along Sect. "X" | Vert "Y" | Normal to Sect. "Z" | Remarks | Mag Az | Corr'd Az Decl -10.5  |
|------------|----------------|-----------------|---------------------|--------|----------------|----------------|-----------------|----------|---------------------|---------|--------|-----------------------|
| collar     |                |                 |                     |        |                |                | 4985.1          | 325.0    | 9898.9              |         |        |                       |
| 0.00       | 0.00           | 6.00            | 6.00                | -6.00  | 67.0           | 256.5          | -1.0            | 4982.8   | 319.5               | 9898.9  | layout |                       |
| 12.00      | 6.00           | 31.00           | 25.00               | -25.00 | 65.1           | 261.6          | 4.1             | 4972.3   | 296.8               | 9899.6  | flexit | 272.1 261.6           |
| 50.00      | 31.00          | 75.00           | 44.00               | -44.00 | 65.3           | 263.4          | 5.9             | 4954.0   | 256.8               | 9901.5  | flexit | 273.9 263.4           |
| 100.00     | 75.00          | 125.00          | 50.00               | -50.00 | 65.2           | 262.9          | 5.4             | 4933.1   | 211.4               | 9903.5  | flexit | 273.4 262.9           |
| 150.00     | 125.00         | 175.00          | 50.00               | -50.00 | 65.4           | 262.3          | 4.8             | 4912.3   | 166.0               | 9905.2  | flexit | 272.8 262.3           |
| 200.00     | 175.00         | 225.00          | 50.00               | -50.00 | 65.2           | 263.1          | 5.6             | 4891.5   | 120.6               | 9907.3  | flexit | 273.6 263.1           |
| 250.00     | 225.00         | 275.00          | 50.00               | -50.00 | 65.3           | 262.0          | 4.5             | 4870.6   | 75.2                | 9908.9  | flexit | 272.5 262.0           |
| 300.00     | 275.00         | 325.00          | 50.00               | -50.00 | 65.6           | 263.4          | 5.9             | 4850.1   | 29.6                | 9911.0  | flexit | 273.9 263.4           |
| 350.00     | 325.00         | 375.00          | 50.00               | -50.00 | 65.3           | 261.0          | 3.5             | 4829.2   | -15.8               | 9912.3  | flexit | 271.5 261.0           |
| 400.00     | 375.00         | 425.00          | 50.00               | -50.00 | 64.8           | 261.2          | 3.7             | 4808.0   | -61.0               | 9913.7  | flexit | 271.7 261.2           |
| 450.00     | 425.00         | 475.00          | 50.00               | -50.00 | 65.1           | 262.8          | 5.3             | 4787.0   | -106.4              | 9915.6  | flexit | 273.3 262.8           |
| 500.00     | 475.00         | 525.00          | 50.00               | -50.00 | 64.8           | 262.8          | 5.3             | 4765.8   | -151.6              | 9917.6  | flexit | 273.3 262.8           |
| 550.00     | 525.00         | 581.00          | 56.00               | -56.00 | 64.1           | 262.8          | 5.3             | 4741.5   | -202.0              | 9919.8  | flexit | 273.3 262.8 magnetic, |
| 612.00     | 581.00         | 636.00          | 55.00               | -55.00 | 64.1           | 262.8          | 5.3             | 4717.6   | -251.5              | 9922.1  | flexit | 273.3 262.8 use prev. |
| 660.00     | 636.00         | 685.00          | 49.00               | -49.00 | 63.9           | 260.5          | 3.0             | 4696.0   | -295.5              | 9923.2  | flexit | 271.0 260.5           |
| 710.00     | 685.00         | 735.00          | 50.00               | -50.00 | 63.6           | 265.7          | 8.2             | 4674.0   | -340.3              | 9926.4  | flexit | 276.2 265.7           |
| 760.00     | 735.00         | 780.00          | 45.00               | -45.00 | 64.3           | 269.2          | 11.7            | 4654.9   | -380.8              | 9930.3  | flexit | 279.7 269.2           |
| 800.00     | 780.00         | 830.00          | 50.00               | -50.00 | 63.8           | 267.3          | 9.8             | 4633.2   | -425.7              | 9934.1  | flexit | 277.8 267.3           |
| 860.00     | 830.00         | 886.00          | 56.00               | -56.00 | 64.5           | 270.8          | 13.3            | 4609.7   | -476.2              | 9939.6  | flexit | 281.3 270.8           |
| 912.00     | 886.00         | 912.00          | 26.00               | -26.00 | 64.5           | 270.8          | 13.3            | 4598.8   | -499.7              | 9942.2  | flexit | 281.3 270.8           |
|            | 912.00         | 0.00            | -912.00             | 912.00 | 64.5           | -10.5          | -268.0          | 4585.1   | 323.5               | 9549.8  | flexit | -10.5                 |

End of Hole 912.00

Note: , **Outline** requires data entry

Enter end of hole in column A after last dip test depth & enter projected dip in corresponding cell column F

IF "X" decreasing down hole change D to E in formula in column I

A.W. Beecham 04-Jan-00

Note: Declination correction to UTM North used 10.5 deg.

A.W. Beecham

20-Jul-08

## Loveland Township

D.H. W-08-19 Summary Log

| From   | To     |                                                                                                                                      |
|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------|
| 0.00   | 7.50   | Casing                                                                                                                               |
| 6.30   | 31.80  | Fine Grained, Mafic Intrusive                                                                                                        |
| 31.80  | 118.60 | Mafic Flows, Minor Mafic Intrusives                                                                                                  |
| 118.60 | 122.65 | Mafic Dyke/Fault Zoe                                                                                                                 |
| 122.65 | 129.70 | Mafic Flows                                                                                                                          |
| 129.70 | 191.06 | Diabase Dyke                                                                                                                         |
| 191.06 | 267.29 | Mafic Flows;                                                                                                                         |
| 267.29 | 267.42 | Tuff/Exhalite 4% Po                                                                                                                  |
| 267.42 | 294.00 | Mafic Flows                                                                                                                          |
| 294.00 | 294.92 | Argillite, +/-Graphite/Siltstone 3 to 4% Py                                                                                          |
| 294.92 | 310.86 | Qtz-Phyric Felsic Flow Bx - Eastern Contact                                                                                          |
| 310.86 | 349.08 | Mafic Flows                                                                                                                          |
| 349.08 | 360.75 | Qtz-Phyric Felsic Tuff/ Tuff Bx                                                                                                      |
| 360.75 | 368.65 | Fine Grained Mafic Intrusive                                                                                                         |
| 368.65 | 379.60 | Mafic Flows                                                                                                                          |
| 379.60 | 422.80 | Qtz-Phyric Felsic Tuff/ Tuff Bx                                                                                                      |
| 422.80 | 492.38 | Fine Grained Mafic Intrusive                                                                                                         |
| 492.38 | 495.87 | Qtz-Phyric Felsic Volcanic Bx                                                                                                        |
| 495.87 | 507.55 | Fine Grained Mafic Intrusive with 0.5% Cp plus Po from 506.77 to 507.25                                                              |
| 507.55 | 508.45 | Qtz-Phyric Felsic Volcanic Bx                                                                                                        |
| 508.45 | 515.00 | Fine Grained Mafic Intrusive                                                                                                         |
| 515.00 | 610.20 | Diabase Dyke                                                                                                                         |
| 610.20 | 676.10 | Fine Grained Mafic Intrusives                                                                                                        |
| 676.10 | 692.25 | Qtz-Fsp-Phyric Felsic Flow Bx                                                                                                        |
| 692.25 | 765.65 | Fine to Coarse-Grained Mafic Intrusive;                                                                                              |
| 765.65 | 773.00 | Lamprophyre                                                                                                                          |
| 773.00 | 794.10 | Med Grained Mafic Intrusive                                                                                                          |
| 794.10 | 804.90 | Lamprophyre                                                                                                                          |
| 804.90 | 817.05 | Med Grained Mafic Intrusive                                                                                                          |
| 817.05 | 841.65 | Lamprophyre                                                                                                                          |
| 841.65 | 865.40 | Qtz-Phyric Felsic Flow Bx                                                                                                            |
| 865.40 | 868.00 | Sericite Altered Qtz-Phyric Felsic Flow with 1% Py                                                                                   |
| 868.00 | 872.80 | Altered Mafic-Intermediate Dyke                                                                                                      |
| 872.80 | 912.00 | Qtz-Phyric Felsic Flow; Incl. 900 to 912m: discontinuous, lean diss of Cp with isolated tr Sph; Only minor Chl alterations apparent; |

Loveland Township

**General Comments:**

Eastern Contact, top of inter-layered, tholeiitic, felsic and mafic volcanics with overlying transitional to calc-alkalic mafic flows cut at 245.4m; Contact only weakly mineralized; Some anomalous Zn +/-Cu levels & +/- Na depletion in dacite bx, qtz-phyric tuffs and fg mafic intrusives intermittently from 250.4 to 268.1 and from 336.2 to 512.2m;

909.5m to 911.9: Minor concentrations Cp in dark rhyolite;

841.6 downward, felsic volcanics are flows or dome-type deposits compared to felsic tuffs and pyroclastics cut higher in the hole;

**Drilling Notes**

NQ core

Drilled with hexagonal core barrel and long shell from casing to approx 810m; Normal core barrel below this depth;

Casing left in place

**Geophysics**

Pulse EM survey by Quantec June 2008; No conductors detected;

Titan 24 MT Anomaly: W-08-19 passed through anomaly from approximately 710 to 880m; However, there are only minor sulphides coincident with anomaly and in writer's opinion the anomaly is not explained. The anomaly does, however, coincide with the electrical power line along the Abitibi Road.

610.2 to 636: epidote-altered fg mafic intrusive immediately west of west-dipping diabase, could possibly be related to MT anomaly ??? Should plot distribution of epidote and see if related to MT anomaly; and west-dipping dyke/fault.

**Lithochemistry Note:** Samples 3634 and 3635 logged as mafic volcanics from above logged position of Eastern Contact have tholeiitic Zr/Y ratios and intermediate SiO<sub>2</sub> levels. This suggests Eastern Contact should be drawn at top of dacitic breccia unit at 245.4m rather than at 294.9 as indicated by original logging;



| From  | To    | Symbol     | Description                                                                                                                                                                                                                                                                                                                                        | Structure                                                                                                                                  | CA | Alteration, Veins                                                                                                                                                                          | Alt Sym                  | Mineralization               |
|-------|-------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|
| 0.00  | 7.50  | CS         | <u>CASING</u>                                                                                                                                                                                                                                                                                                                                      | Approx 3m casing core before 6.3m;<br>Casing core not kept;                                                                                |    |                                                                                                                                                                                            |                          |                              |
| 6.30  | 31.80 | 5f         | <u>FINE GRAINED MAFIC INTRUSIVE</u> : Med grey, fine, up to 0.5mm, grain size; diabasic or interlocking stubby fsp and mafics; scattered, <0.5%, 1 to 3mm fsp phenocrysts; 90% fsp; H=5; Non-magnetic                                                                                                                                              | Prominent, rusty fracture at 00 to 05°; at 15 to 16m and 21 to 24m;<br>Massive, uniform, dyke-like; Lower ct chilled and bleached at 40;   |    | 22.1 o 23.9m: grey qtz bx vein with isolated bleb (3cm x0.6cm at 23.7m) Cp and tr Py at 00 to 05°;<br>26.25: 5 cm qtz-calc-jasperite vein at 40; Minor qv and qtz-calc veinlets elsewhere; |                          | See 'Alteration, veins';     |
| 31.80 | 41.80 | 2g,a       | <u>MASSIVE, AMYGULAR MAFIC FLOW</u> : Med dull grey fine even grained; sections with a few % indistinct 1 to 2mm partly altered fsp phenocrysts; #% fine qtz amygdulles, Indistinct flow structure: H=5 to 4.5                                                                                                                                     | Lower ct, arbitrary--at 1st pillow selvage;                                                                                                |    | 33: white fsp (or andalusite??)- qtz alteration of amygdulles; Grey qtz-calc-jasperite veinlets as follows:<br>36.9m: 3cm at 20: 40.2 to 41.0: 5% veinlets to 1 cm;                        | qtz-calc-jasper veinlets | no sulphides noted;          |
| 41.80 | 53.00 | 2d,g       | <u>PILLOWED, AMYGULAR MAFIC FLOW</u> : As above, except indistinct pillow selvages/colour bands, weakly chl'ic bands; 3% to 5% 0.5 to 3mm amygdulles; 50.6 to 53: continuous flow banding or 'pillow ribs'; weakly fsp-phyric;                                                                                                                     | Same flow as previous; Lower contact sharp-- probable flow contact; 42.5 to 43.1: finely broken and 0.2m lost core marks small fault/vein; |    | 42 to 43.1: at least 25% qtz-calc-jasperite, isolated tr Cp veinlets;<br>48.0 to 49.8: 3%, white fsp-qtz altered amygdulles;                                                               |                          | See 'Alteration, veins';     |
| 53.00 | 61.20 | 2b         | <u>MAFIC VOLCANIC BRECCIA (Flow Top)</u> : Med grey, Fine even-grained with weakly fsp-phyric sections; Also sections with fine, dark 'ghosts' of altered fsp; 1 to 3%, 0.5 to 1mm qtz amygdulles in fragments and ?matrix; Bx with fine fragmental 'matrix' with frag's from <1c to 8cm; gradational into pillows at bottom (probably pillow bx); | Minor broken sections due to 20°;<br>Lower contact sharpe at 30 --(pillow selvage);                                                        |    | No significant alteration; Some bleaching of fragments or matrix;                                                                                                                          |                          | Isolated tr finely diss'd Py |
| 61.20 | 71.20 | alt2/2b    | <u>ALTERED (SPOTTED) MAFIC FLOW</u> : Med grey-green, even or with fine dark 'ghosts', pseudomorphs after 0.5 to 1mm fsp phenocrysts; Sections of fine bx; Sections of fine angular and coarse, swirled bx near bottom;                                                                                                                            | Lower ct gradational                                                                                                                       |    | 25% 3mm to 1 cm irregular lt grey blotches/bleaching;                                                                                                                                      | bl                       |                              |
| 71.20 | 73.80 | sh, alt 2  | <u>SHEARED, ALTERED, MAFIC VOLCANIC</u> : Dark grey-green fine grained; H=3.5; Primary texture and structures obliterated; 73.8 to 76.7: massive and probably altered veined mafic dyke;                                                                                                                                                           | Strong schistosity/shearing at 25°; to 35°;<br>72.7 to 72.9: 2mm to 6mm gouge seams at 30°; small fault;                                   |    | Strong, pervasive calcite with a little fine chl, plus 8% calc partings and veinlets;                                                                                                      | ca, chl                  | no sulphides noted;          |
| 73.80 | 76.70 | sh, alt 5f | <u>SHEARED, ALTERED, FG MAFIC DYKE</u> : Dark, grey-green, fine, even grained, H=3.5;                                                                                                                                                                                                                                                              | 74.5 to 74.6: 2mm to 6mm gouge seams at 30°; small fault;                                                                                  |    | 74.5 to 75: 2%:leucoxene; texture obscured;                                                                                                                                                | ca, chl                  | no sulphides noted;          |

| From   | To     | Symbol  | Description                                                                                                                                                                                                                                                                      | Structure                                                                                                                                                                                                | CA | Alteration, Veins                                                                                                                                                                                        | Alt Sym        | Mineralization                                     |
|--------|--------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------|
| 76.70  | 113.60 | alt2/2b | <b>ALTERED (SPOTTED) MAFIC FLOW:</b> Similar to above, 61.2 to 71.2, but texture obscured: only weakly amygdular; fine, dk fsp? 'ghost' (pseudomorphs) in a few places; H=5; Indistinct flow structures here and there incl minor fine bx;                                       | 76.7 to 96.5: moderately fractured with <1% calcite veinlets; 96.5 to 113.6: numerous fractures with 2 to 4% calcite veinlets; 110.5 to 111.2: strong shearing at 40° and broken core marks small fault; |    | Spotted, mottled, streaked with light, grey bleaching, probably incl strong, pervasive non-fizzy carb and sections of pervasive calc;; Bleaching includes a little epidote e.g at 100m; See 'structure'; | ca, epid       | no sulphides noted;                                |
| 113.60 | 118.60 | 5f,g    | <b>FG. AMYGULAR, MAFIC DYKE:</b> Dark grey-green med fine grained (<0.5mm); remnant ophitic texture; sparse 1mm fsp phenoX; Lower part with up to 2%, 1mm amygdules;                                                                                                             | Upper contact sharp & marked by fracture/calc vein at 40°;                                                                                                                                               |    | Blotchy bleaching in places, A few streaks epidote; 115: 1.5 cm white qtz-calc vein at 15°;                                                                                                              | bl, epid       |                                                    |
| 118.60 | 121.80 | fr5f    | <b>FRACTURED, FG, MAFIC DYKE:</b> Dark green to lt brownish grey; remnant ophitic texture with 2% 1mm fsp phenoX; H= 4.5                                                                                                                                                         | Upper sharp and chilled against previous unit at 60°; Strongly fractured                                                                                                                                 |    | Bleaching, a little epidote; 2%, mm, qtz-carb +/- epidote veins; 120.1: 3cm, white qv at 20°                                                                                                             | qtz-carb, epid | no sulphides noted;                                |
| 121.80 | 122.65 | fr5f    | <b>FAULT ZONE/ FG MAFIC DYKE:</b> fragments of previous unit;                                                                                                                                                                                                                    | Seam reported, Finely broken with 0.5m lost core; End of wide fractured, altered fault zone;                                                                                                             |    | Bleached, altered brown-grey                                                                                                                                                                             |                |                                                    |
| 122.65 | 129.70 | 2f,g    | <b>FSP-PHYRIC MAFIC VOLCANIC:</b> Dk grey-green, fg with up to 3 or 4% 0.5 to mm fsp phenoX; H=5.5; Sparse, small qtz amygdules; Large, altered amygdules from 5mm to several cm long filled with qtz-fsp?                                                                       | Sparse fractures with qtz, qtz-calc +/- epidote cement/veinlets;                                                                                                                                         |    | Abrupt drop in alteration across proceeding fault--This unit relatively unaltered compared to above fault; Pods streak epidote-qtz                                                                       | epid.          | tr Py in epidote pods throughout;                  |
| 129.70 | 191.06 | 10      | <b>C.G. DIABASE DYKE:</b> Dark green, even ophitic texture, from fine grained at contacts to 3mm in middle; Massive and dyke-like; Very 'fresh', strongly magnetic throughout;; coarser middle speckled with 2% interstitial magnetite; Typical, fresh, Matachewan-type diabase; | Contacts chilled at 20° and 25°; Wide-spaced fractures, 0.2 to 0.8m; Moderately fr'd at lower contact, fractures at 10° to 20°                                                                           |    | Unaltered; minor chl films on fractures; minor films calcite +/- epidote on fractures;                                                                                                                   |                | 0.3% interstitial Py; tr Py as films on fractures; |
| 191.06 | 202.00 | 2f,g    | <b>ALTERED, FSP-PHYRIC, AMYGULAR MAFIC FLOW:</b> Similar to unit 122.65 to 129.7; Dk grey-green, fg with sections of 2% 1mm fsp phenoX; H=5 to 5.5; Sparse, small qtz amygdules & large (to 10mm), altered qtz-fsp?-epid amygdules; Isolated possible pillow selvages;           | Lower contact arbitrary, based on end of fsp phenoXs; --probably same flow;                                                                                                                              |    | Alteration spots (3 to 6mm) and blotches up to 20cm, of bleaching-silicification and epidote; 201 to 201.6: hairline to 15mm qtz-calc.epid veins with tr Py                                              | bl,epid, sil   | 201 to 202 tr Py with qtz-calc-epid veins;         |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                                                      | Structure                                                                                                             | CA | Alteration, Veins                                                                                                                                                                                                                                                                                                                                                                                | Alt Sym                         | Mineralization                                                                                                           |
|--------|--------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 202.00 | 222.30 | 2g,a   | <u>AMYGULAR, MAFIC FLOW</u> : As previous unit, but without fsp phenocrysts;(destroyed by alteration??); Variably amygular from <1% small grey qtz to 8% qtz & qtz fsp amyg up to 3mm; H=5                                                                                                                                                                                       | Lower contact placed where pillows start                                                                              |    | 203.5 to 204.2: mm qtz-calc-epidote-jasperite veins with minor Cp and Py; 214.5 to 217.2: 1 to 5mm thick qtz-calc-jasperite, minor Py, tr Cp veinlets along core axis; 202 to 207; and 212 to 222; alterations spots/bleaching, 2 to 6mm in diameter of bleaching,+ sil'n+ epid. 205.3: 2 cm, wh qv, minor jas at 25°; 212.5: 2 to 3 cm wh qtz-calc vein at 40°; 219.7: 1 cm qtz-calc-jas at 40° | qtz-calc-jas vns, bl, sil, epid | 202.9 to 203.7: minor Py, tr Cp and 215.8 to 216: tr Py and isolated tr Cp with qtz-calc-epidote +/- jasperite veinlets; |
| 222.30 | 238.40 | 2d,g   | <u>AMYGULAR, PILLOWED MAFIC FLOW</u> : Dark grey-green, mottled light grey; fine, mostly even grained with short sections and pods fsp-phyric material from top to 227; Narrow to broad pillow selvages probably with fine hyaloclastite? ( Pillows similar to those seen in upper part of LDM-99-02); Variably amygular with small grey quartz and larger quartz-fsp amygdules; | Upper contact defined by presence of pillows, -Lower contract abrupt at start of very amygular flow;                  |    | Bleaching as 4mm spots, and blotches; Minor calc veins; 228.3 to 233.8: three, lt grey qtz-calc veins 2 to 3 cm at 20° to 35°;                                                                                                                                                                                                                                                                   |                                 | 225 to 225.5: tr diss Py; also trPy here and there as films on fractures;                                                |
| 238.40 | 245.35 | 2g,    | <u>AMYGULAR, FLOW-BANDED MAFIC FLOW</u> : Med grey-green, fine, even grained; 3 to 7% amygdules as in previous unit; Flow banding at 70° to 110°;                                                                                                                                                                                                                                | Lower contact abrupt at 45°; 241.7 to 242.8: finely broken with close spaced fracture incl fr at small angle to core; |    | Minor bleaching with some calc. Minor calcite veins; Some amygdules with white fsp (andalusite??) and quartz around periphery;                                                                                                                                                                                                                                                                   |                                 | tr diss Py here and there;                                                                                               |
| 245.35 | 251.70 | 2b     | <u>DACITIC, VOLCANIC BRECCIA</u> : Dark and light grey/grey; Fine even grained; Mostly angular fragments from a few mm up to 30cm blocks; Most of 'matrix' fragmental rather than lava; Some of fragments amygular; Uncertain if this is flow or pyroclastic breccia; (Name based on WRA)                                                                                        | Cts abrupt at 45; 250.3 to 251.7: angular, ragged fragments aligned at 45° and 135°;                                  |    | Weak chl alteration of some of matrix and some large blocks; white and grey quartz in bx matrix here and there; Includes some reddish brown silica(jasperite);                                                                                                                                                                                                                                   | qtz                             | 245.8 to 247.6: tr Py as scattered spongy blebs, and isolated grains and lean diss'n;                                    |
| 251.70 | 254.80 | 2g     | <u>AMYGULAR, DACITIC FLOW</u> : As above; qtz and calc amygdules; H=4: (Name based on WRA)                                                                                                                                                                                                                                                                                       | Lower ct irregular                                                                                                    |    | Relatively soft, fsp altered; Calc as amygdules, hairline veinlets; minor patches dark chl: Possible pervasive non-fizzy carb?                                                                                                                                                                                                                                                                   | Ca                              | Isolated tr Py; Isolated tr Po at 253.5m;                                                                                |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                                                   | Structure                                                                                                                                                                                                          | CA  | Alteration, Veins                                                                                                                                      | Alt Sym   | Mineralization                                                                                                         |
|--------|--------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------|
| 254.80 | 261.00 | 2b     | <b>ALTERED DACITIC, VOLCANIC BRECCIA:</b> Fine to coarse bx; Strongly amyg fragments; Some amyg in matrix suggests unit is flow bx; (Name based on WRA)                                                                                                                                                                                                                       | Lower ct abrupt;                                                                                                                                                                                                   |     | 5 to 8% lt grey hard alteration spots and isolated 20 cm blotch at 259.8; probably fine secondary fsp and quartz; Alteration mainly in bx matrix;      | sil, fsp? | 254.8 to 255.8: tr Py with isolated small blebs Po; 255.2: tr Cp with Po;                                              |
| 261.00 | 263.70 | 2a/5g  | <b>MASSIVE, AMYGULAR DACITIC FLOW OR INTRUSIVE:</b> As above, fine even grained; 1% small amygdules; (Name based on WRA)                                                                                                                                                                                                                                                      | Upper contact sharp marked by mm thick calc vein, but appears chilled against overlying bx unit--suggests unit is a dyke; Lower contact irregular, abrupt, chilled?, with thin flow banding against underlying bx; |     | 4% thin calcite veinlets in top 1m;                                                                                                                    |           | tr Py throughout as fine diss, in calc veinlets and films on fractures: tr Cp in hairline calc vein with Py at 262.85; |
| 263.70 | 267.29 | 2b     | <b>DACITIC, VOLCANIC BRECCIA:</b> 263.7 to 266.0: Mostly amygular fg mafic fragments of 5 to 10cm with 30% altered fine fragmental matrix incl minor hyaloclastite and minor mm thick wisps of thin-bedded felsic sediment; 266.0 to 267.29: >90% 10 to 30cm blocks of massive, fg mafic with fragmental matrix; Unit probably auto-brecciated flow rock; (Name based on WRA) | Lower ct: 15 cm 1 to 5 cm angular bx;                                                                                                                                                                              |     | Light grey alteration and silicification rims and matrix alteration makes up 8% of unit;                                                               | bl, sil   | 264 to 266.1: 0.5 to 1% Po as scattered grains, blebs up to 1 cm with tr Cp and Py: 266.1 to 267.29: tr Po             |
| 267.29 | 267.42 | 4e     | <b>THINLY-BEDDED FG FELSIC TUFF/EXHALITE:</b> Alternating light and dk grey; Silt-like. Mostly aphyric, (some 0.5mm qtz either phenocrysts or amygdules of adjacent mafic volc);<br><u>Remarks:</u> Low sulphide content suggests weak or remote hydrothermal discharge;                                                                                                      | 0.5 to 10mm thick beds at 52';<br>Contacts sharp;                                                                                                                                                                  | 52' | Minor bleaching/sil'n                                                                                                                                  | sil, bl   | 4% Po as 1 to 2mm thick beds & lenses and diss'n; Isolated tr Cp                                                       |
| 267.42 | 273.90 | 2b     | <b>MAFIC VOLCANIC BRECCIA:</b> fg mafic fragments cm to 40cm block (in middle); Frag. Amygular, +/-flow-banded, and some are fsp-phyric; Some tongue-like features may be broken pillows; matrix appears mostly fragmental;                                                                                                                                                   | Lower ct arbitrary/gradational from bx to solid flow:                                                                                                                                                              |     | lt grey bleaching in matrix, and minor, white sil'n 'crusts' here and there, both in matrix; Same alteration as mm white spots around small amygdules; | bl, sil   | 267.42 to 267.6: 1% Po as small blebs with tr Cp; 267.6 to 270.2: isolated tr Po, Py                                   |
| 273.90 | 292.70 | 2g     | <b>MASSIVE, AMYGULAR, MAFIC FLOW:</b> Med grey-green, fine, even grained; small qtz and larger calc amygdules, 2 to 7% overall; Some flow structure, incl flow banding in top metre;                                                                                                                                                                                          | Upper contact gradational into preceding flow/pillow bx, therefore unit must be part of flow; 276.1: Minor bx and sharp, internal contact';                                                                        |     | Weakly altered; H=4.5--probably some fsp-destructive alteration: 2% calc in amyg and hairline fract's                                                  |           | 280 to 283 +/-: tr diss Py                                                                                             |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Structure                                                                                                                                                                                                                                         | CA  | Alteration, Veins                                                                                                    | Alt Sym | Mineralization                                                                                                                                                        |
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| 292.70 | 294.00 | 2f/4a  | <b>MAFIC VOLCANIC-ARGILLITE BRECCIA:</b> 80%, 1 to 2cm, plus a few blocks to 15cm, angular fg, fsp-phyric fragments of fg mafic volcanic with 20% black, relatively hard argillite? Probably formed from stream explosion caused by lava flowing over water-bearing mud;                                                                                                                                                                                                                                                    | upper ct sharp at 165°; Lower ct conformable with underlying argillite;                                                                                                                                                                           |     | minor bleaching of fragment rim; Minor thin calc veinlets and isolated, pervasive calc alteration of some fragments; |         | 292.7 to 293.8: tr diss Py, mostly in matrix; 293.8 to 294.0: 1% diss Py with a little fg Po;                                                                         |
| 294.00 | 294.92 | 4a,4g  | <b>ARGILLITE AND SILTSTONE with Minor Graphitic Argillite:</b> Med grey silt and black mud beds; H=4.5 to 5.5: Graphite present only in thin partings at top; Only graphite partings at top and Po-rich beds at bottom conductive;                                                                                                                                                                                                                                                                                          | Most bed 1mm or less thick, with a few mud and silt beds to >1 cm; Lower contact irregular and mudstone encloses small angular fragments of underlying rock; Indistinct graded beds fine toward collar, both indicating 'tops' are toward collar; | 58' | Pervasive calc in some of silt beds; Minor spotting (hornfels?) of some silt layers;                                 | ca      | 294.0 to 294.1: 3% Py as mm beds and diss; 294.1 to 294.78: tr diss Py, 294.78 to 294.92: 8% Po and Py (more Po than Py) incl 20% Py/Po over 1 cm and isolated tr Cp; |
| 294.92 | 310.86 | 3c     | <b>DARK, QTZ, FSP-PHYRIC FELSIC FRAGMENTAL: (EASTERN CONTACT)</b> Dark grey black 2 to 5%, 0.5 to 3mm qtz phenox and in places fsp phenox to about 2mm; Very fg to aphanitic matrix; H=6; Most of unit is indistinct bx with elongated, aligned fragments from cm to 20cm; 300.6 to 302.2: 5 Bx with angular fragments and 4 to 8% black, argillite? matrix (similar to mafic unit 292.7 to 294.0); 308 to 310.86: massive and flow like retaining fsp phenocrysts and with 2 mm qtz-calcite amygdules; Probably a flow bx; | Breccia fragments long axis (oriented bx) at about 50°; 302.6 to 303: finely broked due to fractures nearly parallel to core;                                                                                                                     | 50' | Very 'fresh' and unaltered; even fsp phenocrysts preserved; 308 to 310.8: minor calcite veining;                     |         | 300.7 to 302.9: 0.5 % fine Py in black matrix (argillite) and adjacent rhyolite with conc 1% / 0.5m; tr Py here and there elsewhere;                                  |
| 310.86 | 320.50 | 2d,g   | <b>PILLOWED, AMYGULAR MAFIC FLOW:</b> Med grey with brownish hue; Fine even, remnant ophitic texture; H=5.0; bx in top 0.4m; Pillowed with some well preserved hyaloclastite in selvages; 2 to 3% qtz and calc amygdules; Flow banding here and there;                                                                                                                                                                                                                                                                      | Lower contact gradational into massive med fg mafic (core of flow)                                                                                                                                                                                |     | Minor bleaching especially around amygdules; 1 to 2 % calcite and qtz calc in amygdules and veinlets;                |         | 310.86 to 318: minor conc Po, Py and tr Cp in selvages and as veinlets, tr overall; 318 to 319.5: 0.5% Po and Py with tr Cp and conc up to 2% sulphides over 10cm.    |
| 320.50 | 328.70 | 2a     | <b>MASSIVE MAFIC FLOW:</b> As above unit with almost not flow structures; <1% fine amygdules;                                                                                                                                                                                                                                                                                                                                                                                                                               | Contacts gradational and units above and below are same thick flow; One flow from 310.86 to 349.1                                                                                                                                                 |     | Minor white mm qv;                                                                                                   |         | isolated tr Py in fractures;                                                                                                                                          |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                      | Structure                                                                                                                                                                                                                  | CA       | Alteration, Veins                                                                                                        | Alt Sym | Mineralization                                                                                                                                                                                                                                                                                                      |
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| 328.70 | 349.08 | 2d,g   | <u>PILLOWED, AMYGULAR, MAFIC FLOW</u> : Med grey; Texture and flow structures similar to unit 310.86 to 320.5m; 341 to 345.4: fine to med grained and flow banded and no pillow selvages;                                                                                                                                        | Lower contact abrupt and irregular at 45° with 2cm clastic dyke from underlying lapilli tuff; 332 to 333: moderately broken with very minor gouge;                                                                         |          | Only weakly altered; Minor calcite and calc-qtz as mm veins and amygdules; Some bleaching & weak chl in pillow selvages; |         | 336.3 to 337.6: 0.5 to 1% sulphides, mainly Po with lesser Py blebs and mm veins and tr Cp. 339.8 to 341: Minor Po +/-Py and tr Cp in pillow selvages; 341.0 to 345.0; minor (tr over all) Py +/- Po, & tr Cp in thin calc, qtz-calc and qtz-fsp?? veinlets; 347.0 to 348.5: minor Py, Po, tr Cp in pillow selvages |
| 349.08 | 351.00 | 3c     | <u>LITHIC, QTZ-PHYRIC LAPILLI TUFF</u> : Dark grey, mostly fg felsic, lithic clasts from 2 to 10mm with sparse silt to sand size; 2 to 4%, 1 to 2mm qtz phenocrysts; Sparse streaky banded clasts, pumice? H=6 to 6.5; <u>Remarks</u> : 6cm, thin-bedded chert-like tuff at top;                                                 | Lower contact arbitrary, placed where first clasts over 5 cm; fine tuff and tuff bx interbedded; 3350.8: Sand bed fines toward collar; also load casts present; Massive to thin-bedded; and clasts long axes at 75° to 80° | 75°, 80° | No significant alteration;                                                                                               |         | Py as fine diss and spongy blebs, mm lenses as follows:<br>349.08 to 349.7: tr; 349.7 to 350.4: 2%; + tr Cp at 350.3<br>350.4 to 351.0: 0.3%                                                                                                                                                                        |
| 351.00 | 360.75 | 3c     | <u>MASSIVE, LITHIC, QTZ-PHYRIC LAPILLI TUFF and TUFF BRECCIA</u> : Similar to above unit, but slightly larger clasts up to 2 cm; tuff-bx sections from 351 to 354.1:                                                                                                                                                             | Relatively massive and poorly bedded at 80°                                                                                                                                                                                | 80°      | No significant alteration;                                                                                               |         | tr Py as isolated small blebs, and very lean diss; ; 359.0: isolated 2cm spongy bleb; tr Cp with Py at 356.4 and 357.1m;                                                                                                                                                                                            |
| 360.75 | 368.65 | 5p/2f  | <u>MASSIVE, FSP-PHYRIC, AMYGULAR MAFIC MAFIC DYKE OR FLOW?</u> : Med grey, fg with up to 4%, 1mm feldspar phenocrysts; Strongly amygdular towards contacts; Contacts suggest a flow but very massive and dyke-like and fsp-phyric rocks within tholeiitic sequence more likely to be intrusive; Possibly very shallow intrusive; | Upper contact does not appear chilled & has protrusions of overlying tuff into unit; At lower contact irregular & underlying tuff protrudes in unit like clastic dyke? Numerous fractures;                                 |          | Minor mm quartz and calcite veinlets;                                                                                    |         | trace Py with in amygdules and calcite veinlets;                                                                                                                                                                                                                                                                    |
| 368.65 | 379.60 | 2d     | <u>PILLOWED, MAFIC FLOW</u> : Med to light grey, fine to med fg; even, remnant ophitic texture; Irregular pillow and abundant flow banding near top, massive sections in middle and pillow? breccia in bottom 1m;                                                                                                                | Upper contact marked by 15 cm qtz-phyric felsic tuff; unit includes a little felsic tuff in pillow selva at top; Bottom contact very irregular with inclusions of qtz-phyric felsic volc near base;                        |          | weakly bleached, mottled                                                                                                 |         | Minor concentrations of 0.5 to 1% over 10cm at top and in some of the pillow selvages;                                                                                                                                                                                                                              |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                                                                                                                          | Structure                                                                                                                                                                                         | CA          | Alteration, Veins                                                                                                                                                                                                                                                                                                                      | Alt Sym | Mineralization                                                                                                                                                                                                         |
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| 379.60 | 394.70 | 3c     | <b>QTZ-PHYRIC FELSIC LAPILLI TUFF:</b> Med grey, fine to lapilli tuff, mostly lithic clasts; Scattered, mostly lt grey clasts up to 2 cm. ; 1 to 3%, 0.5 to 1mm qtz phenocrysts; sparse, white, 2 mm fsp phenox; vfg, but not aphanitic; dark grey and lt grey clasts; most are qtz-phyric; Scattered, banded, collapsed pumice clasts;                                                                                                              | Lower contact arbitrary-where clast over 5 cm occur; Nearly massive, with indistinct clast alignment at 55 to 70°                                                                                 | 55°,<br>70° | relatively unaltered;                                                                                                                                                                                                                                                                                                                  |         | tr Py here and there throughout as diss, scattered small blebs, hairline veinlets and with calcite; 385.8: tr Cp in mm calc with hem stain; 386.96: isolated tr Sph; 388.0: tr Cp with Py;                             |
| 394.70 | 422.80 | 3c     | <b>QTZ-PHYRIC FELSIC TUFF-BRECCIA:</b> 2 to 4% 0.5 to 1 mm qtz phenox; Blue qtz 'eyes' at 416.7; Large clasts up to 10 and 15 cm make up 20% of unit; below 416.5 grades downward into lapilli tuff; Rest of material a few cm to ash size; Clasts are med grey to lt grey to tan, white sil'd angular clasts but all are qtz-phyric; Mainly matrix supported; Spectacular pyroclastic bx-see photos;<br><u>Remarks:</u> 410.7: 20 cm fg mafic dyke; | Massive or with indistinct clast alignment at 60°                                                                                                                                                 | 60°         | 418 to 422.8: Short sections, 15 to 20 % of unit with fract'g & silicification and minor hem/jasperite veinlets;                                                                                                                                                                                                                       | sil     | Sph: isolated occurrences at 383.3, 402.6; 408.7: Isolated Cp occurrences at 399.7; 409.6; and with isolated 1 to 2 cm blebs Po from 415.7 to 416.6; tr Py here and there throughout with a few conc to 1% over 10 cm. |
| 422.80 | 456.80 | 5f, 5p | <b>FG, MAFIC INTRUSIVE:</b> Med, grey, med-fg, about 1mm in middle; random oriented fsp, mostly even grained; H-5; Uniform and dyke-like;                                                                                                                                                                                                                                                                                                            | Upper contact sharp at 45°, but marked by fractures; No lower contact--gradational & may be same dyke; 45,° appears to be chilled; 436.8: minor gouge seam at 45°; Moderately fract'd throughout: |             | 441.45: 1 cm qtz-calc vein with small blebs Cp and tr Py; 442.1: 7cm cream-coloured alt'n +qv, calc threads + 2% Py; 442.65: 6 cm banded calc, pale red fsp or jasperite and 2% Py; 443.3: 10 cm cream-coloured sil'd zone with calc threads and minor Py; Above veins at about 45: Minor mm thick calc and qtz calc veins throughout; |         | See 'Alteration, veins'; Isolated tr Py; Almost no sulphides other than where noted in veins;                                                                                                                          |
| 456.80 | 492.38 | 5p     | <b>FG, FSP-PHYRIC MAFIC INTRUSIVE:</b> Med grey-green fine to med (1mm) grained with up to 4%, 0.5 to 3mm fsp phenox; massive, uniform, dyke-like: Some sections have fine mafic spot or clusters; a little leucoxene; (See WRA)<br><u>Remarks:</u> 489.5 to 489.8: Angular intrusive bx with matrix of similar intrusive;                                                                                                                           | Lower ct sharp at 45° & appears chilled; 457.8 to 458.6; broken; 470 to 471: vuggy with sulphate & calcite veinlets and broken;                                                                   |             | 470.2 to 471.1: broken vuggy zone with mm thick linings of anhydrite/gypsum or barite??(non-reactive to HCl, but a little hard for gypsum) with a little calc and fg Py;                                                                                                                                                               |         | See alteration, veins; isolated tr diss Py;                                                                                                                                                                            |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                                                                                                                             | Structure                                                                                                                                                                                                            | CA | Alteration, Veins                                                                                                        | Alt Sym  | Mineralization                                                                                                                                                                            |
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| 492.38 | 495.87 | 3c     | <b>QTZ-PHYRIC FELSIC VOLCANIC BRECCIA:</b> Mottled, lt and dk grey; fg, H= breccia of < 1cm to > 30cm elongate/flattened fragments, mostly streaky banded and either collapsed pumice or flow-banded material; Fragments are variably qtz-phyric with 2 to 6% 0.5 1mm phenocrysts and a few (>30cm) fg mafic types;                                                                     | Contacts from enclosing mafic intrusives;                                                                                                                                                                            |    | Short section strong sil'n and a little ser at bottom;                                                                   | sil, ser | Isolated tr Py at bottom of unit;                                                                                                                                                         |
| 495.87 | 507.55 | 5p     | <b>FG, FSP-PHYRIC MAFIC INTRUSIVE:</b> As above 456.8 to 492.38; sparse qtz amygdules; <b>Remarks:</b> 507.28 to 507.55: Chl? Intrusive bx of 5p and felsic volc;                                                                                                                                                                                                                       | 496.5: a little broken core; Upper ct sharp at 45°; Lower contact an intrusive bx;                                                                                                                                   |    | 496.7: 60% calc over 10 cm; Elsewhere minor calc as mm veins;                                                            |          | 495.87 to 496.0: 2% diss Py; Isolated tr Py here and there with carb-epidote alt; <b>506.77 to 507.25: 0.5% Cp with Po and minor Py, as blebs, thin veinlets with bleached fractures;</b> |
| 507.55 | 508.45 | 3c     | <b>QTZ-PHYRIC FELSIC VOLCANIC BRECCIA:</b> As above, 492.38 to 495.87; Septum or xenolith;                                                                                                                                                                                                                                                                                              | Contacts irregular;                                                                                                                                                                                                  |    | bleached/ sil'd, possibly a little ser                                                                                   | sil, bl  | no sulphides noted;                                                                                                                                                                       |
| 508.45 | 515.00 | 5g     | <b>FG, AMYGULAR MAFIC INTRUSIVE:</b> Dk green, even, fine grained; relatively fsp-rich; Sections very massive and dyke-like or with sparse to abundant qtz and qtz-calc amygdules; 510.3 to 510.6, & 511.2 to 511.6 & 512.7 to 513.8 partly digested felsic volcanic xenoliths. Xenoliths rubbly suggested dyke intruded into near surface only partly consolidated pyroclastic rubble; |                                                                                                                                                                                                                      |    | Minor dark chl at top; Lt grey unidentified felsic alteration/bleaching as spots and fracture selvages occupies 2 to 4%; | bl       | 509 to 512.6: ½ to 1% Py, minor Po as diss, veinlets with felsic spotted and fracture-controlled alteration; tr Cp as small blebs with Py at 509.6 & 511.9m;                              |
| 515.00 | 610.20 | 10     | <b>CG, DIABASE DYKE;</b> As above 129.7 to 191: Grain size up to 3mm in middle; Strongly magnetic;                                                                                                                                                                                                                                                                                      | Upper contact chilled and at 12°; Moderately fract'd near upper contact; 567 to 579: moderate fracturing at 30° to 10°; 602.7 to 603.1: strong fr' and bx'd; Lower contact finely broken over 0.2m; contact chilled; |    | 571.2: 2 cm epidote-calc vein; Minor mm qv near top contact;                                                             |          | tr Py interstitial & with minor epidote-calcite veinlets; 574.6 to 575: ½ to 1% Py with mm qtz-calc-epidote veinlets;                                                                     |
| 610.20 | 638.50 | alt5p  | <b>EPIDOTE-ALT'D, FG FSP-PHYRIC MAFIC INTRUSIVE:</b> Dark grey, fg (0.5mm) with 4%, 0.5 to 2mm fsp; matrix with stubby, random-oriented fsp. Looks porphyritic but a more or less grain size continuum; Massive and dyke-like except for alteration bands; Similar to unit 456.8 to 492;                                                                                                | Lower contact arbitrary where alteration affects <10% of unit;                                                                                                                                                       |    | 10% +/- bands, veins, diffuse epidote alteration +/- qtz +/- calcite +/- trPy; Relatively unaltered between 'veins'      | epid.    | tr Py with epidote;                                                                                                                                                                       |



| From   | To     | Symbol   | Description                                                                                                                                                                                                                                                                                                                            | Structure                                                                                                                                                                                                                                                                                                                               | CA     | Alteration, Veins                                                                                                                                                           | Alt Sym | Mineralization                                                                                                                                                                            |
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| 638.50 | 655.30 | 5p/5f    | FG, FSP-PHYRIC, MAFIC INTRUSIVE: As previous unit, but less epidote alteration; Only sections of unit appears porphyritic                                                                                                                                                                                                              | Contacts arbitrary, gradational, same intrusive above and below: 648.2 to 648.7: strong chl'ic shear/schist at 35°                                                                                                                                                                                                                      |        | Minor veins, bands epidote+/-qtz, calc.; Feldspar phenocrysts obliterated over > ½ of unit; See 'Structure'                                                                 |         | tr Py here and there with epidote/calc/qv; 642.5 to 644.5& at 647.6: isolated Cp +/- Py with qtz-calc and qtz-calc-epid veinlets;                                                         |
| 655.30 | 667.70 | alt5p/5f | EPIDOTE-ALTD.FG FSP-PHYRIC MAFIC INTRUSIVE: As above 610.2 to 638.5; Only short section with fsp phenocrysts preserved;                                                                                                                                                                                                                | Contracts arbitrary, gradational                                                                                                                                                                                                                                                                                                        |        | 10% +/- bands, veins, diffuse epidote alteration +/- qtz+/-calcite+/- isolated trPy; 654.5<br>3 cm blebby qtz-chl-epid vein at 15°;                                         | epid.   | isolated tr Py; 667.4:<br>isolated mm grains Cp;                                                                                                                                          |
| 667.70 | 676.10 | 5p/5f    | FG, FSP-PHYRIC, MAFIC INTRUSIVE: As above, 610.2 to 638.5 except with less epidote alteration; Fsp-phyric only in sections;                                                                                                                                                                                                            | At lower contact, indistinct band follows irregular ct with protrusions of adjacent rhyolite into mafic intrusive; (Either intruded into unconsolidated rubble or this unit a flow rather intrusive??)                                                                                                                                  |        | 669.4 to 670.4: 10 cm thick +/- white, glassy qv with no sulphides at 5 to 07; Minor epid-qtz-calc zones/veins;                                                             |         | negligible sulphides;                                                                                                                                                                     |
| 676.10 | 692.25 | 3e       | QTZ-FSP-PHYRIC FELSIC VOLCANIC BX: (FLOW BX?): Med to lt grey mottled; vfg matr with 5%, 0.5 to 2mm grey and, in places blue qtz phenocrysts, & up to 2%, 2 to 3mm, white fsp phenox; A bx of ragged, irregular, elongate fragments from <1 to >2 cm; Short, thinly banded sections and banded fragments, probably flow banding?; H=6; | Contacts sharp and irregular; Banding and fragment alignment: 30 to 45°                                                                                                                                                                                                                                                                 | 30, 45 | about 30% bleached lt grey; Presence of fsp suggest this is one the least altered felsic volcanics encountered in area; See mineralization; 689.4:minor mm veinlets dk chl; | bl      | 676.8 and 678.3: 5mm qtz-calc veins at deg with minor diss Py and tr Cp; 689 to 689.25: 4mm qtz-calc vein with 1% Py over 20 cm; Elsewhere, tr Py as isolated grains and minor fine diss; |
| 692.25 | 709.60 | 5f       | FG MAFIC INTRUSIVE: med grey fg to mfg up to 0.5 mm; massive uniform, dyke-like; finely speckled with mafics in places; stubby fsp, texture not distinctive; fine leucoxene;                                                                                                                                                           | Upper contact very irregular with small protrusions of dyke into rhyolite and vice versa; banding in dyke parallel to contact; a few small qtz amygdules in dyke; May have intruded into unconsolidated rhyolite bx; 699.8: internal contact with upper part fl banded and chilled against lower; 705 to 706.8: strong fract'g& broken; |        | isolated epidote; minor calc and qtz-calc veins;                                                                                                                            |         | 703.7: 2% Po, tr Cp/ 5cm; Isolated tr Py here and there, diss and in mm qtz-calc veinlets;                                                                                                |
| 709.60 | 713.05 | 5p       | MAFIC FELDSPAR PORPHYRY DYKE: Dark green f-mfg matrix with from<0.5 to 4mm white subhedral fsp.:                                                                                                                                                                                                                                       | Contacts with well preserved chills at 75° and 30°;                                                                                                                                                                                                                                                                                     |        | Very fresh and unaltered relative to wall rock, but not magnetic;                                                                                                           |         | no sulphides noted;                                                                                                                                                                       |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                                             | Structure                                                                                               | CA     | Alteration, Veins                                                                                           | Alt Sym         | Mineralization                                                                                                                                                                                        |
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| 713.05 | 720.10 | 5f     | <u>FG MAFIC INTRUSIVE</u> : As above 692.25 to 709.6; fairly abundant leucoxene; <u>Remarks</u> : 716.44 to 716.8: fg, flow banded dyke cutting unit;                                                                                                                                   | Lower ct gradational -same intrusive above and below:                                                   |        | Minor calc veinlets;                                                                                        |                 | no sulphides noted;                                                                                                                                                                                   |
| 720.10 | 726.80 | 5a     | <u>CG GABBRO</u> : lt grey, mg outer part to cg core; diabasic texture with euhedral fsp laths up to 6mm; small spots and blotches of mafics; fairly abundant leucoxene; H=4.5 to 5                                                                                                     |                                                                                                         |        |                                                                                                             |                 | no sulphides noted;                                                                                                                                                                                   |
| 726.80 | 736.50 | 5f     | <u>FG MAFIC INTRUSIVE</u> : As above 692.25 to 709.6; fairly abundant leucoxene; <u>Remarks</u> :                                                                                                                                                                                       | Contacts arbitrary, gradational, same intrusive above and below:                                        |        | minor alteration spots at lower contact                                                                     |                 | tr Py in mm calc veinlets;                                                                                                                                                                            |
| 736.50 | 762.65 | 5a     | <u>MG GABBRO</u> : Med grey texturally identical to cg unit 720.1 to 726.8; grain size 1 to 3mm, very massive, uniform; <u>Remarks</u> : 744 to 745.5: qtz-calc veined fg intrusive (or mass flow) with chilled contact against gabbro; 761.6: 10 cm rounded vfg felsic xenolith;       |                                                                                                         |        | See mineralization; Sparse calc, calc-qtz-epidote veinlets with minor Py and isolated Cp;                   |                 | 745.2 : small blebs Cp (1%/10cm) with Py 2cm qtz-calc vein at 25; 753.3: small bleb Cp + Py and mt (magnetite) in 1 cm qtz-calc veins; Isolated tr Py here and there in qtz-calc, calc veins and diss |
| 762.65 | 773.00 | 5f/11  | <u>FG MAFIC or LAMPROPHYRE DYKE</u> : Med, dull grey,brown hue; fsp-rich dyke; Very fine diabasic texture; H=5; About 0.5% 0.5 to 2mm chlorite amygdules or altered mafic phenocrysts (Lamprophyre); <u>Remarks</u> : Looks much younger & probably not same suite as wall rock gabbro; | Well preserved chilled contacts at 35° and 70°:                                                         |        | Relatively fresh and unaltered; 0.5% dk chl in amygdules; Minor hairline qtz-calc thin chl selvage veinlets |                 | tr diss Py here and there;                                                                                                                                                                            |
| 773.00 | 782.46 | 5a     | <u>MG GABBRO</u> : Med grey texturally identical to cg unit 720.1 to 726.8; Grain size up to 3 mm;                                                                                                                                                                                      |                                                                                                         |        | Minor qtz-calc+/-epidote veinlets                                                                           |                 |                                                                                                                                                                                                       |
| 782.46 | 782.73 |        | <u>FAULT ZONE</u> Gouge, chl'ic slips                                                                                                                                                                                                                                                   | gouge, slips at 30°                                                                                     | 30     | 15cm calcite-qrz bx vein;                                                                                   |                 |                                                                                                                                                                                                       |
| 782.73 | 794.10 | 5a     | <u>MG GABBRO</u> : As above 773 to 782.46; Grain size up to 2 to 3 mm;                                                                                                                                                                                                                  | Moderately to strongly fractured with vein cement;                                                      |        | 3 to 5 % mm to 1 cm grey qtz +/- calcite+/-epidote: Very weakly bleached;                                   | qtz-ca-epid vns | Rare tr Py with qtz-calc veinlets                                                                                                                                                                     |
| 794.10 | 804.90 | 5f/11  | <u>FG MAFIC (OR LAMPROPHYRE) DYKE</u> : As above 762.65 to 773.0; 1 to 2mm chl spots resemble hornblende? pseudomorphs; No reaction to conc HCl;;                                                                                                                                       | Upper contact chilled at 45 deg; with 1m finely broken; Lower contact has well preserved chilled at 17° | 45, 17 | Sparse 1mm calc veinlets with thin chl selvage;                                                             |                 | tr Py as small scattered grains and minor diss;                                                                                                                                                       |
| 804.90 | 817.05 | 5a     | <u>MG GABBRO</u> : As above 773 to 782.46; Grain size up to 3 to 4mm; <u>Remarks</u> : 815.6 to 817.05: grain size reduces downward to <0.5mm;                                                                                                                                          | Solid with very few fractures;                                                                          |        | 8% over 30cm qtz-calc veinlets to 4mm in middle of unit; Minor epidote veins at bottom;                     |                 | 810.6: isolated mm bleb Cp and Py with qtz-calc veinlets;                                                                                                                                             |
| 817.05 | 841.65 | 5f/11  | <u>FG MAFIC or LAMPROPHYRE DYKE</u> : As above 762.65 to 773.0: See WRA;                                                                                                                                                                                                                | Upper contact good chill against mg gabbro at 12°; Lower contact at 14°                                 | 12,    | Sparse 1mm calc veinlets with thin chl selvage;                                                             |                 | Isolated tr interstitial Py- not fracture or vein controlled;                                                                                                                                         |

| From   | To     | Symbol  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                 | Structure                                                                          | CA       | Alteration, Veins                                                                                                                                                                                                                                           | Alt Sym      | Mineralization                                                                                                                                                                                                                                                                                                                                                 |
|--------|--------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 841.67 | 861.90 | 3e      | <u>DARK_QTZ-PHYRIC, FELSIC FLOW</u> : Dark to med grey; 1 to 3%, 0.5 to 2mm, black qtz phenocrysts; vfg, but not aphanitic; H=6<br>841.67 to 852: Bx with ragged, in places flow banded, fragments up to >10cm, or massive;<br>852 to 855.4: Flow-banded with bands at 60° to 150°; 855.4 to 861.9: close-packed bx to massive volc; <u>Remarks</u> : 847.62 to 848.04: fg mafic dyke with chilled, flow-banded cts at 55 & mm, calc amyg?? |                                                                                    |          | Variable intensity, up to 15% of lt grey spots (3mm) and blotches with dolomite (non fizzy) and calc;                                                                                                                                                       | dol, Ca      | Almost not sulphides;<br>847.9: isolated tr diss Py; 857.3: isolated tr (cluster) fine Sph; 861.8 to 861.9: 0.5 % Py scattered dk grains;                                                                                                                                                                                                                      |
| 861.90 | 863.20 | 5f      | <u>ALTERED MAFIC DYKE</u> : Dk green fg; H=4.5; 1 to 3mm amygdules? in middle;                                                                                                                                                                                                                                                                                                                                                              | Partings, cleavage, veining at 30 to 45° Contacts marked by shears and calc veins; | 30°, 45° | 8% calcite partings and sections of strong pervasive calc                                                                                                                                                                                                   | ca, chl      | 1% Py over 10 cm at top contact;                                                                                                                                                                                                                                                                                                                               |
| 863.20 | 865.40 | 3e      | <u>DARK_QTZ-PHYRIC, FELSIC FLOW</u> : As above 841.67 to 861.9;                                                                                                                                                                                                                                                                                                                                                                             |                                                                                    |          | minor weak ser;                                                                                                                                                                                                                                             |              | 863.7: 0.5 % diss Py over 0.1m;                                                                                                                                                                                                                                                                                                                                |
| 865.40 | 868.00 | alt3e   | <u>SERICITE-ALTERED_QTZ-PHYRIC FELSIC FLOW</u> : Texture as above, pale green, lt grey; Mostly indistinct, fine bx with fragments to 2 or 3 cm.; H=5.5 to 6 even in ser'd sections;                                                                                                                                                                                                                                                         | Upper contact where mod ser starts: Lower contact sharp at 35°                     |          | 866.5 to 868.1: Mod pervasive ser affects 75% of this sections; Elsewhere ser alteration affects about 1/3 of these sections; 67.5 to 868: weak hem staining; Sections of moderate pervasive calc;                                                          | ser,         | 86534 to 867.5: tr overall & minor sections of 0.5% diss Py; 867.5 to 868: 1% diss Py;                                                                                                                                                                                                                                                                         |
| 868.00 | 872.80 | alt5f3k | <u>ALTERED MAFIC TO INTERMEDIATE DYKE?</u> Med grey with pale green streaks and mottling; med fg with remnant 1 to 2mm mafic phenocrysts; (might be type of lamprophyre;) Feldspar-rich;                                                                                                                                                                                                                                                    | Contacts sharp at 35°                                                              | 35       | Thin veinlets, short sections altered to epidote affects 15% of unit; May include some ser as in adjacent rhyolite                                                                                                                                          | epid.        | 0.5 % throughout diss and minor hairline vein Py; 872.4: isolated tr Cp;                                                                                                                                                                                                                                                                                       |
| 872.80 | 894.30 | 3e      | <u>DARK_QTZ-PHYRIC, FELSIC FLOW</u> : As above, Some sections with blue qtz phenocrysts; 872.8 to 884: Indistinct bx with a few flow banded fragments to >10cm + relatively massive sections<br>884 to 894.3: Flow-banded with bands at 40 to 150°; <u>Remarks</u> : 888.4 to 889.3: fg mafic dyke with sharp contacts at 60;                                                                                                               | Few fractures, with minor sections broken core;                                    |          | 872.8 to 874: mod, pervasive sericite alteration; 872.8 to 886: Light grey, 2 to 4 mm spots, patches, streaks of mostly non-fizzy carb (dol) affects 5 to 8%; , 889 to 894.3: dol and calcite spots and patches, 5 to 8%; 877.6 to 882.5:bleached, lt grey; | dol, Ca, ser | 872.8 to 874: 0.5 % diss Py and conc to 1% over 10cm; 873.9: 1 cm cluster with 5% 'honey-coloured' soft mineral, possibly Sph; 883.0: 1% Py/10cm in two mm thick calc veins; 885.5: isolated tr Cp; 886.05: 5mm bleb 'honey-coloured' Sph?? with tourmaline; + a few small grains; 888.4 to 888.5: 1% Py diss and in calc vein in maf dyke; 889.3: tr diss Py; |

| From   | To     | Symbol | Description                                                                                                                                                                                                                                                        | Structure                                                                                                                | CA     | Alteration, Veins                                                                          | Alt Sym         | Mineralization                                                                                                                                                                                                                                                                                                                                                                             |
|--------|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 894.30 | 896.50 | 5f     | <u>FG MAFIC INTRUSIVE</u> : dk green, m-fg, massive and dyke-like; flow bands at lower ct;                                                                                                                                                                         | Upper ct marked by fract/calc vein at 40°; Lower ct a fracture with epidote at 45°;                                      | 40, 45 | A few % qtz-calc-epidote veins;                                                            | qtz-ca-epid vns | tr Py incl 1%/ 10 cm at top diss and in calc veins;                                                                                                                                                                                                                                                                                                                                        |
| 896.50 | 912.00 | 3e     | <u>DARK,QTZ-PHYRIC, FELSIC FLOW</u> : Texturally as above; 896.5 to 992.6; bx with streaky flow bands and flow-band material; 992.6 to 912: massive flow: :<br><u>Remarks</u> : 898.15 to 899.25 & 901.15 to 901.7 fg mafic dykes with sharp contacts at 35 to 50; | Flow bands in upper part from 40° to 00°; 897 to 900: jumbled core in top part of this 'run"; affects dyke contact only; |        | 5 to 8% lt grey dol ? (reacts only to conc HCl) and calcite mm spots and clusters of spots | dol, Ca         | tr Py as small scattered grains here and there throughout; Cp and Sph as scattered small grains; 901.06: tr Cp, Sph; 903.7 to 909.1: widely scattered isolated grains Sph, with Cp --tr overall; 903.8 : isolated tr Cp 904.4 to 905.1: tr Cp as scattered small grains 906.2 to 906.6: tr Cp; 909.1: tr Cp; <b>909.5 to 910.0: 0.1 % Cp as scattered grains; 910.5 to 911.9: 0.1% Cp;</b> |
|        | 912.00 |        | END OF HOLE                                                                                                                                                                                                                                                        |                                                                                                                          |        |                                                                                            |                 |                                                                                                                                                                                                                                                                                                                                                                                            |

Western Kidd Resources Inc

Drill Log

DH: W-08-19

Loveland Twp

Sample Sheet: W-08-19

| Sample Number | From m | To m   | Sample Length | Est Min % |     |     |     | Au g/tonne | Au check | Ag ppm | Cu ppm | Pb ppm | Zn ppm | Co ppm | Ni ppm | Pt ppb | Pd ppb | Remarks                                   |
|---------------|--------|--------|---------------|-----------|-----|-----|-----|------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------------------------|
|               |        |        |               | Po        | Py  | Cp  | Sph |            |          |        |        |        |        |        |        |        |        |                                           |
| 3620          | 22.27  | 23.90  | 1.70          |           | tr  | 0.1 |     | NIL        | -        | 0.4    | 922    | 1      | 115    |        |        |        |        | qv with bleb Cp (interval 22.2 or 21.2-?) |
| 3621          | 26.00  | 26.50  | 0.50          | -         | -   | -   | -   | 5          | -        | 0.2    | 31     | 1      | 57     |        |        |        |        |                                           |
| 3622          | 29.00  | 30.00  | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                                 |
| 3623          | 38.00  | 39.00  | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                                 |
| 3624          | 42.00  | 43.00  | 1.00          |           |     | tr  |     | 3          | -        | 0.2    | 84     | 1      | 61     |        |        |        |        | qtz-calc-jasperite veins                  |
| 3625          | 64.00  | 65.00  | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                                 |
| 3626          | 108.00 | 109.00 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                                 |
| 3627          | 127.00 | 128.00 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                                 |
| 3628          | 200.00 | 201.00 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                                 |
| 3629          | 201.00 | 201.90 | 0.90          |           | tr  |     |     | 9          | -        | 0.2    | 82     | 1      | 67     |        |        |        |        |                                           |
| 3630          | 201.90 | 203.00 | 1.10          |           | tr  | tr  |     | 7          | -        | 0.3    | 77     | 1      | 110    |        |        |        |        | qtz-calc-jasperite veins                  |
| 3631          | 203.00 | 204.00 | 1.00          |           | tr  |     |     | 5          | -        | 0.2    | 64     | 3      | 62     |        |        |        |        |                                           |
| 3632          | 215.80 | 217.20 | 1.40          |           | tr  | tr  |     | NIL        | -        | 0.2    | 100    | 1      | 73     |        |        |        |        | qtz-calc-jasperite veins                  |
| 3633          | 231.00 | 232.00 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                                 |
| 3634          | 250.40 | 251.40 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                                 |
| 3635          | 254.80 | 255.80 | 1.00          | tr        | 0.2 | tr  |     | 7          | 9        | 0.2    | 19     | 1      | 74     |        |        |        |        | also lithochem                            |
| 3636          | 263.90 | 265.00 | 1.10          | 0.5       | tr  | tr  |     | 12         | 18       | 0.2    | 37     | 1      | 57     | 21     | 37     | <5     | <5     |                                           |
| 3637          | 265.00 | 266.10 | 1.10          | 1         | tr  | tr  |     | 9          |          | 0.2    | 56     | 1      | 51     | 26     | 55     | <5     | <5     |                                           |
| 3638          | 266.10 | 267.29 | 1.19          | tr        |     |     |     | nil        |          | 0.2    | 55     | 1      | 97     |        |        |        |        |                                           |
| 3639          | 267.29 | 267.42 | 0.13          | 4         |     | tr  |     | 7          |          | 0.2    | 55     | 1      | 183    |        |        |        |        | Exhalite' ; Also lithochem                |
| 3640          | 267.42 | 268.10 | 0.68          | tr        |     | tr  |     | 3          |          | 0.2    | 54     | 1      | 136    |        |        |        |        |                                           |
| 3641          | 285.00 | 286.00 | 1.00          | tr        | tr  |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                                 |
| 3642          | 292.65 | 294.00 | 1.35          | tr        | tr  |     |     | 3          |          | 0.2    | 58     | 1      | 49     |        |        |        |        | mafic volc-argillite bx;                  |
| 3643          | 294.00 | 294.92 | 0.92          | 1         | 0.5 | tr  |     | 3          |          | 0.2    | 58     | 1      | 86     |        |        |        |        | Argillite                                 |
| 3644          | 294.92 | 296.00 | 1.08          |           | tr  |     |     | 3          |          | 0.2    | 11     | 1      | 49     |        |        |        |        | Geochem + lithochem.                      |
| 3645          | 305.00 | 306.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                                 |
| 3646          | 313.00 | 314.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                                 |
| 3647          | 318.00 | 319.50 | 1.50          | 0.3       | 0.2 | tr  |     | 5          | -        | 0.2    | 70     | 1      | 48     |        |        |        |        |                                           |
| 3648          | 336.20 | 337.70 | 1.50          | 0.7       | 0.3 | tr  |     | 14         | -        | 0.2    | 130    | 1      | 45     |        |        |        |        |                                           |
| 3649          | 345.10 | 346.10 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                                 |
| 3650          | 349.08 | 349.70 | 0.62          |           | tr  |     |     | 3          |          | 0.2    | 35     | 1      | 98     |        |        |        |        |                                           |
| 3651          | 349.70 | 350.70 | 1.00          |           |     |     |     | nil        |          | 0.2    | 23     | 3      | 86     |        |        |        |        |                                           |
| 3652          | 350.70 | 352.00 | 1.30          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                                 |

Loveland Twp

| Sample Number | From m | To m   | Sample Length | Est Min % |     |     |     | Au g/tonne | Au check | Ag ppm | Cu ppm | Pb ppm | Zn ppm | Co ppm | Ni ppm | Pt ppb | Pd ppb | Remarks                      |
|---------------|--------|--------|---------------|-----------|-----|-----|-----|------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------------|
|               |        |        |               | Po        | Py  | Cp  | Sph |            |          |        |        |        |        |        |        |        |        |                              |
| 3653          | 374.00 | 375.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3654          | 390.00 | 391.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3655          | 415.60 | 416.60 | 1.00          | 0.5       | tr  | tr  |     | 9          | -        | 0.2    | 47     | 1      | 57     |        |        |        |        | geochem + lithochem          |
| 3656          | 459.00 | 460.00 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                    |
| 3657          | 493.00 | 494.00 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                    |
| 3658          | 506.70 | 507.28 | 0.58          | 0.2       | tr  | 0.5 | -   | 9          | -        | 1.1    | 1350   | 1      | 74     |        |        |        |        |                              |
| 3659          | 509.20 | 510.70 | 1.50          |           | 0.5 | tr  |     | NIL        | -        | 0.2    | 131    | 1      | 36     |        |        |        |        | lithochem                    |
| 3660          | 510.70 | 512.20 | 1.50          |           | 0.5 | tr  |     | 5          | -        | 0.3    | 264    | 1      | 35     |        |        |        |        |                              |
| 3661          | 619.00 | 620.00 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | lithochem                    |
| 3662          | 642.30 | 643.70 | 1.40          |           | tr  | tr  |     | 5          | -        | 0.3    | 140    | 1      | 37     |        |        |        |        |                              |
| 3663          | 643.70 | 645.00 | 1.30          |           | tr  | tr  |     | 5          | -        | 0.3    | 156    | 1      | 37     |        |        |        |        | Cp in q-calc veinlets in 5f; |
| 3664          | 664.00 | 665.00 | 1.00          |           |     |     |     | -          | -        | -      | -      | -      | -      |        |        |        |        | Lithochem                    |
| 3665          | 669.40 | 670.40 | 1.00          |           |     |     |     | 10         | -        | 0.2    | 8      | 1      | 46     |        |        |        |        | qv                           |
| 3666          | 686.50 | 688.00 | 1.50          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3667          | 714.00 | 715.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3668          | 760.00 | 761.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3669          | 809.00 | 810.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3670          | 830.00 | 831.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3671          | 850.00 | 851.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3672          | 866.50 | 868.00 | 1.50          | -         | 0.7 | -   | -   | nil        |          | 0.2    | 41     | 1      | 33     |        |        |        |        | lithochem                    |
| 3673          | 880.00 | 881.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3674          | 890.00 | 891.00 | 1.00          |           |     |     |     |            |          |        |        |        |        |        |        |        |        | lithochem                    |
| 3675          | 900.10 | 901.10 | 1.00          |           | tr  | tr  | tr  | 7          |          | 0.2    | 51     | 1      | 45     |        |        |        |        | geochem + lithochem          |
| 3676          | 904.30 | 905.30 | 1.00          |           | tr  | tr  | tr  | 2          |          | 0.2    | 45     | 3      | 61     |        |        |        |        |                              |
| 3677          | 909.50 | 910.80 | 1.30          |           | tr  | 0.1 |     |            |          |        |        |        |        |        |        |        |        | geochem + lithochem          |
| 3678          | 910.80 | 911.90 | 1.10          |           | tr  | 0.1 |     |            |          |        |        |        |        |        |        |        |        |                              |

**Western Kidd Resources Inc**  
Loveland Township

**Diamond Drill Log**  
Lithochemistry

DH: W-08-19

DH: W-06-19

Lithochemistry

Certificates

| Sample # | From   | To     | SiO2 % | Al2O3 % | Fe2O3 % | CaO % | MgO % | Na2O % | K2O % | TiO2 % | P2O5 % | MnO % | BaO % | Cr2O3 % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %   | Zr/Y |  |
|----------|--------|--------|--------|---------|---------|-------|-------|--------|-------|--------|--------|-------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|-------|------|--|
| 3620     | 22.27  | 23.90  | 66.23  | 10.54   | 6.59    | 5.89  | 2.87  | 2.83   | 0.24  | 0.45   | 0.12   | 0.08  | 0.01  | 0.03    | <5     | 57     | 737    | <10    | 113    | <100   | 11     | 91     | 95    | 9     | 129    | 53     | 3.1   | 99.11   | 0.29 | 0.16  | 5.89 |  |
| 3621     | 26.00  | 26.50  | 50.70  | 15.86   | 8.59    | 10.60 | 3.37  | 2.06   | 1.61  | 0.79   | 0.15   | 0.11  | 0.02  | 0.02    | <5     | 35     | 10     | <10    | 47     | <100   | 17     | 129    | 148   | 14    | <5     | 91     | 5.76  | 99.68   | 0.77 | 0.01  | 6.50 |  |
| 3622     | 29.00  | 30.00  | 54.75  | 16.29   | 8.97    | 7.55  | 3.98  | 3.87   | 0.47  | 0.81   | 0.15   | 0.12  | 0.02  | 0.02    | <5     | 35     | 10     | <10    | 45     | <100   | 19     | 160    | 160   | 16    | <5     | 94     | 1.95  | 99.01   | 0.03 | 0.01  | 5.88 |  |
| 3623     | 38.00  | 39.00  | 54.02  | 16.47   | 9.40    | 8.05  | 4.52  | 3.20   | 0.49  | 0.76   | 0.16   | 0.13  | 0.02  | 0.02    | <5     | 35     | 41     | <10    | 79     | <100   | 21     | 125    | 162   | 19    | <5     | 101    | 2.36  | 99.67   | 0.03 | 0.02  | 5.32 |  |
| 3624     | 42.00  | 43.00  | 51.15  | 15.45   | 10.15   | 8.31  | 4.14  | 1.58   | 1.59  | 0.99   | 0.18   | 0.14  | 0.03  | 0.02    | <5     | 39     | 59     | <10    | 58     | <100   | 22     | 105    | 207   | 22    | <5     | 101    | 5.51  | 99.30   | 0.39 | 0.03  | 4.59 |  |
| 3625     | 64.00  | 65.00  | 55.19  | 16.30   | 8.30    | 7.49  | 4.24  | 4.58   | 0.31  | 0.72   | 0.16   | 0.12  | 0.01  | 0.03    | <5     | 36     | 20     | <10    | 69     | <100   | 19     | 148    | 151   | 18    | 10     | 95     | 2.35  | 99.87   | 0.03 | 0.01  | 5.28 |  |
| 3626     | 108.00 | 109.00 | 52.35  | 15.88   | 9.19    | 8.37  | 4.53  | 2.18   | 0.93  | 0.73   | 0.15   | 0.12  | 0.02  | 0.03    | <5     | 36     | <5     | <10    | 76     | <100   | 20     | 138    | 154   | 18    | 10     | 94     | 5.32  | 99.86   | 0.03 | <0.01 | 5.22 |  |
| 3627     | 127.00 | 128.00 | 53.83  | 16.57   | 8.98    | 7.46  | 4.63  | 4.04   | 1.09  | 0.79   | 0.17   | 0.13  | 0.04  | 0.02    | <5     | 38     | 28     | <10    | 76     | <100   | 21     | 148    | 167   | 20    | <5     | 101    | 1.69  | 99.51   | 0.02 | 0.01  | 5.05 |  |
| 3628     | 200.00 | 201.00 | 51.25  | 17.45   | 10.24   | 7.50  | 4.93  | 4.16   | 0.55  | 0.87   | 0.17   | 0.17  | 0.02  | 0.03    | <5     | 39     | 26     | <10    | 87     | <100   | 26     | 129    | 192   | 21    | 17     | 94     | 1.94  | 99.34   | 0.03 | 0.02  | 4.48 |  |
| 3629     | 201.00 | 201.90 | 51.76  | 16.65   | 9.89    | 9.26  | 4.57  | 2.71   | 0.23  | 0.83   | 0.16   | 0.14  | 0.01  | 0.03    | <5     | 39     | 46     | <10    | 81     | <100   | 24     | 131    | 188   | 19    | 64     | 90     | 3.3   | 99.61   | 0.05 | 0.02  | 4.74 |  |
| 3630     | 201.90 | 203.00 | 52.94  | 16.23   | 8.81    | 11.14 | 4.09  | 2.64   | 0.21  | 0.79   | 0.15   | 0.12  | 0.01  | 0.03    | <5     | 37     | 35     | <10    | 74     | <100   | 23     | 156    | 179   | 19    | 61     | 86     | 2.13  | 99.36   | 0.04 | 0.02  | 4.53 |  |
| 3631     | 203.00 | 204.00 | 52.51  | 15.89   | 9.00    | 9.79  | 4.21  | 3.08   | 0.21  | 0.80   | 0.15   | 0.13  | 0.01  | 0.03    | <5     | 38     | 30     | <10    | 84     | <100   | 24     | 118    | 180   | 19    | 13     | 89     | 3.67  | 99.54   | 0.27 | 0.02  | 4.68 |  |
| 3632     | 215.80 | 217.20 | 52.23  | 16.20   | 9.49    | 9.06  | 4.78  | 3.85   | 0.53  | 0.83   | 0.15   | 0.14  | 0.01  | 0.02    | <5     | 42     | 68     | <10    | 96     | <100   | 25     | 107    | 182   | 20    | 33     | 90     | 2.31  | 99.67   | 0.08 | 0.02  | 4.50 |  |
| 3633     | 231.00 | 232.00 | 54.42  | 15.99   | 9.22    | 9.08  | 4.09  | 3.41   | 0.30  | 0.78   | 0.14   | 0.13  | 0.01  | 0.05    | <5     | 37     | 42     | <10    | 80     | <100   | 24     | 115    | 189   | 19    | 12     | 84     | 2.13  | 99.82   | 0.08 | 0.04  | 4.42 |  |
| 3634     | 250.40 | 251.40 | 67.07  | 13.07   | 4.41    | 8.01  | 1.39  | 0.97   | 1.10  | 0.24   | 0.05   | 0.05  | 0.03  | 0.03    | <5     | 8      | 44     | <10    | 10     | <100   | 6      | 167    | 14    | 57    | 121    | 202    | 2.31  | 98.79   | 0.11 | 0.09  | 3.54 |  |
| 3635     | 254.80 | 255.80 | 63.67  | 14.49   | 4.43    | 8.45  | 1.31  | 0.99   | 1.99  | 0.26   | 0.04   | 0.04  | 0.04  | 0.03    | <5     | 9      | <5     | <10    | <5     | <100   | 7      | 96     | 17    | 63    | 81     | 208    | 2.87  | 98.65   | 0.35 | 0.11  | 3.30 |  |
| 3636     | 263.90 | 265.00 |        |         |         |       |       |        |       |        |        |       |       |         |        |        |        |        |        |        |        |        |       |       |        |        |       |         |      |       |      |  |
| 3639     | 267.29 | 267.42 | 68.49  | 11.51   | 4.67    | 10.40 | 0.52  | 0.39   | 0.22  | 0.19   | 0.02   | 0.05  | <0.01 | 0.02    | <5     | <5     | <5     | <10    | <5     | <100   | 5      | 79     | 20    | 65    | 303    | 194    | 2.57  | 99.11   | 0.21 | 0.71  | 2.98 |  |
| 3641     | 285.00 | 286.00 | 44.21  | 17.93   | 11.56   | 11.74 | 5.68  | 3.79   | 0.47  | 0.80   | 0.15   | 0.13  | 0.01  | 0.03    | <5     | 39     | <5     | <10    | 59     | <100   | 24     | 112    | 154   | 19    | 45     | 84     | 2.93  | 99.47   | 0.27 | 0.03  | 4.42 |  |
| 3643     | 294.00 | 294.92 | 58.58  | 15.23   | 7.53    | 7.33  | 2.26  | 1.90   | 1.95  | 0.59   | 0.11   | 0.10  | 0.05  | 0.01    | <5     | 19     | <5     | <10    | 21     | <100   | 13     | 167    | 102   | 21    | 85     | 111    | 4.33  | 100     | 0.58 | 1.06  | 5.29 |  |
| 3644     | 294.92 | 296.00 | 70.76  | 12.30   | 3.58    | 3.91  | 0.63  | 2.04   | 2.52  | 0.44   | 0.09   | 0.06  | 0.06  | 0.01    | <5     | <5     | <5     | <10    | <5     | <100   | 8      | 97     | 16    | 63    | 30     | 283    | 3.17  | 99.62   | 0.24 | 0.13  | 4.49 |  |
| 3645     | 305.00 | 306.00 | 67.39  | 14.28   | 4.56    | 3.73  | 0.67  | 4.48   | 1.62  | 0.42   | 0.09   | 0.05  | 0.01  | 0.03    | <5     | 8      | <5     | <10    | <5     | <100   | 7      | 48     | <5    | 57    | 54     | 278    | 1.54  | 98.93   | 0.17 | 0.02  | 4.88 |  |
| 3646     | 313.00 | 314.00 | 42.30  | 21.35   | 9.30    | 15.64 | 2.70  | 1.99   | 0.66  | 1.07   | 0.20   | 0.12  | 0.02  | 0.04    | <5     | 46     | 24     | <10    | 63     | <100   | 26     | 133    | 196   | 22    | 64     | 93     | 3.77  | 99.21   | 0.53 | 0.25  | 4.23 |  |
| 3647     | 318.00 | 319.50 | 45.13  | 17.02   | 12.44   | 10.38 | 5.62  | 3.69   | 0.53  | 1.19   | 0.23   | 0.16  | 0.03  | 0.02    | <5     | 47     | <5     | <10    | 24     | <100   | 28     | 110    | 183   | 24    | 88     | 112    | 2.83  | 99.33   | 0.23 | 0.39  | 4.67 |  |
| 3648     | 336.20 | 337.70 | 45.96  | 17.91   | 11.18   | 11.11 | 5.25  | 4.06   | 0.72  | 0.96   | 0.18   | 0.13  | 0.02  | 0.04    | <5     | 48     | 55     | <10    | 51     | <100   | 27     | 66     | 162   | 22    | 69     | 97     | 1.86  | 99.44   | 0.1  | 0.67  | 4.41 |  |
| 3649     | 345.10 | 346.10 | 43.55  | 18.52   | 10.71   | 11.25 | 6.42  | 4.12   | 1.13  | 1.01   | 0.19   | 0.20  | 0.04  | 0.04    | <5     | 52     | 30     | <10    | 72     | <100   | 31     | 103    | 184   | 18    | 95     | 76     | 1.99  | 99.24   | 0.12 | 0.2   | 4.22 |  |
| 3652     | 350.70 | 352.00 | 74.32  | 11.40   | 2.79    | 1.73  | 0.30  | 2.57   | 3.50  | 0.16   | 0.01   | 0.05  | 0.08  | 0.02    | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 54     | <5    | 90    | 32     | 283    | 1.95  | 98.91   | 0.09 | 0.11  | 3.14 |  |
| 3653     | 374.00 | 375.00 | 43.57  | 18.52   | 10.83   | 11.03 | 6.26  | 4.32   | 0.70  | 1.07   | 0.20   | 0.17  | 0.02  | 0.05    | <5     | 53     | 67     | <10    | 60     | <100   | 33     | 74     | 200   | 20    | 148    | 81     | 2.35  | 99.16   | 0.11 | 0.12  | 4.05 |  |
| 3654     | 390.00 | 391.00 | 73.59  | 12.23   | 2.52    | 4.41  | 0.22  | 1.21   | 2.68  | 0.14   | 0.01   | 0.04  | 0.05  | 0.03    | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 112    | <5    | 83    | 196    | 259    | 1.96  | 99.13   | 0.04 | 0.03  | 3.12 |  |
| 3655     | 415.60 | 416.60 | 72.61  | 12.72   | 3.43    | 4.43  | 0.31  | 0.40   | 3.48  | 0.15   | 0.02   | 0.03  | 0.07  | 0.04    | <5     | <5     | 19     | <10    | <5     | <100   | <5     | 70     | <5    | 89    | 142    | 284    | 0.98  | 98.73   | 0.02 | 0.22  | 3.19 |  |
| 3656     | 459.00 | 460.00 | 47.49  | 17.79   | 10.71   | 8.68  | 6.32  | 4.34   | 0.31  | 0.78   | 0.15   | 0.11  | 0.01  | 0.02    | <5     | 38     | <5     | <10    | 61     | <100   | 23     | 144    | 159   | 18    | 105    | 93     | 2.18  | 98.96   | 0.02 | 0.01  | 5.17 |  |
| 3657     | 493.00 | 494.00 | 69.75  | 13.54   | 2.80    | 6.37  | 0.51  | 1.87   | 1.96  | 0.16   | 0.02   | 0.03  | 0.04  | 0.04    | <5     | <5     | <5     | <10    | 522    | <100   | <5     | 100    | <5    | 85    | 145    | 284    | 1.34  | 98.53   | 0.06 | 0.01  | 3.34 |  |

**Western Kidd Resources Inc**  
Loveland Township

**Diamond Drill Log**  
Lithochemistry

DH: W-08-19

| Sample # | From   | To     | SiO2 % | Al2O3 % | Fe2O3 % | CaO % | MgO % | Na2O %      | K2O %       | TiO2 % | P2O5 % | MnO % | BaO % | Cr2O3 % | Be ppm | Co ppm | Cu ppm      | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm     | Zr ppm | LOI % | Total % | C %  | S %   | Zr/Y |
|----------|--------|--------|--------|---------|---------|-------|-------|-------------|-------------|--------|--------|-------|-------|---------|--------|--------|-------------|--------|--------|--------|--------|--------|-------|-------|------------|--------|-------|---------|------|-------|------|
| 3658     | 506.70 | 507.28 | 45.94  | 17.72   | 13.85   | 7.71  | 8.46  | 1.54        | 1.14        | 0.78   | 0.29   | 0.13  | 0.03  | 0.02    | <5     | 66     | <b>1256</b> | <10    | 62     | <100   | 23     | 124    | 144   | 24    | <b>284</b> | 116    | 1.6   | 99.42   | 0.02 | 0.25  | 4.83 |
| 3659     | 509.20 | 510.70 | 44.56  | 18.43   | 11.18   | 9.79  | 7.20  | 4.08        | 0.91        | 0.97   | 0.18   | 0.12  | 0.03  | 0.04    | <5     | 51     | 77          | <10    | 67     | <100   | 30     | 124    | 176   | 20    | <b>431</b> | 82     | 1.5   | 99.08   | 0.04 | 0.17  | 4.10 |
| 3660     | 510.70 | 512.20 | 49.73  | 16.16   | 10.73   | 8.98  | 6.03  | 4.83        | 0.34        | 0.98   | 0.19   | 0.13  | 0.01  | 0.04    | <5     | 57     | <b>226</b>  | <10    | 59     | <100   | 30     | 115    | 172   | 21    | 6          | 85     | 1.25  | 99.48   | 0.04 | 0.33  | 4.05 |
| 3661     | 619.00 | 620.00 | 52.79  | 16.68   | 9.89    | 7.99  | 4.34  | 3.95        | 0.86        | 0.97   | 0.20   | 0.12  | 0.02  | 0.02    | <5     | 38     | <5          | <10    | 44     | <100   | 19     | 155    | 159   | 21    | <5         | 120    | 1.29  | 99.18   | 0.02 | 0.01  | 5.71 |
| 3662     | 642.30 | 643.70 | 48.86  | 17.29   | 10.32   | 9.14  | 5.80  | 3.93        | 0.66        | 0.82   | 0.18   | 0.14  | 0.02  | 0.03    | <5     | 42     | <b>124</b>  | <10    | 83     | <100   | 24     | 145    | 182   | 20    | 58         | 96     | 1.83  | 99.09   | 0.04 | 0.02  | 4.80 |
| 3664     | 664.00 | 665.00 | 50.35  | 16.73   | 10.14   | 8.70  | 5.60  | 4.78        | 0.44        | 0.85   | 0.17   | 0.15  | 0.01  | 0.03    | <5     | 44     | 5           | <10    | 89     | <100   | 25     | 120    | 183   | 21    | 38         | 103    | 0.88  | 98.91   | 0.01 | 0.01  | 4.90 |
| 3665     | 669.40 | 670.40 | 68.63  | 8.96    | 5.36    | 6.49  | 2.90  | 2.18        | 0.38        | 0.42   | 0.09   | 0.09  | 0.01  | 0.03    | <5     | 20     | <5          | <10    | 34     | <100   | 13     | 62     | 89    | 10    | 28         | 44     | 2.96  | 98.51   | 0.62 | <0.01 | 4.40 |
| 3666     | 686.50 | 688.00 | 72.27  | 12.04   | 3.60    | 4.53  | 0.17  | 1.39        | 4.18        | 0.13   | 0.01   | 0.08  | 0.08  | 0.03    | <5     | <5     | <5          | <10    | <5     | <100   | <5     | 112    | <5    | 87    | <5         | 274    | 0.25  | 98.81   | 0.17 | 0.05  | 3.15 |
| 3667     | 714.00 | 715.00 | 48.60  | 15.53   | 12.02   | 8.27  | 5.96  | 4.03        | 0.70        | 1.26   | 0.23   | 0.16  | 0.01  | 0.02    | <5     | 48     | 6           | <10    | 26     | <100   | 31     | 124    | 236   | 26    | <5         | 109    | 2.12  | 98.97   | 0.02 | 0.01  | 4.19 |
| 3668     | 760.00 | 761.00 | 48.36  | 15.35   | 12.41   | 10.39 | 6.14  | 3.52        | 0.28        | 1.14   | 0.19   | 0.16  | <0.01 | 0.03    | <5     | 50     | 22          | <10    | 49     | <100   | 33     | 175    | 237   | 21    | <5         | 82     | 1.96  | 100     | 0.01 | 0.02  | 3.90 |
| 3669     | 809.00 | 810.00 | 46.50  | 17.80   | 10.92   | 10.90 | 6.82  | 2.15        | 0.46        | 0.93   | 0.17   | 0.14  | 0.01  | 0.03    | <5     | 50     | 14          | <10    | 110    | <100   | 25     | 128    | 191   | 17    | <5         | 71     | 2.68  | 99.58   | 0.05 | 0.02  | 4.18 |
| 3670     | 830.00 | 831.00 | 48.67  | 14.69   | 11.05   | 11.39 | 7.68  | 2.03        | 1.36        | 0.66   | 0.07   | 0.17  | 0.02  | 0.03    | <5     | 52     | 63          | <10    | 97     | <100   | 36     | 94     | 263   | 15    | <5         | 40     | 1.98  | 99.88   | 0.06 | 0.08  | 2.67 |
| 3671     | 850.00 | 851.00 | 71.41  | 11.89   | 2.88    | 3.74  | 0.28  | 2.38        | 3.21        | 0.14   | 0.01   | 0.07  | 0.06  | 0.02    | <5     | 5      | <5          | <10    | <5     | <100   | <5     | 96     | <5    | 83    | <5         | 256    | 3.11  | 99.25   | 0.56 | 0.01  | 3.08 |
| 3672     | 866.50 | 868.00 | 66.76  | 13.03   | 3.04    | 4.79  | 1.09  | 2.39        | 3.32        | 0.21   | 0.07   | 0.05  | 0.07  | 0.02    | <5     | <5     | <5          | <10    | <5     | <100   | <5     | 272    | <5    | 68    | 43         | 233    | 3.63  | 98.51   | 0.36 | 0.12  | 3.43 |
| 3673     | 880.00 | 881.00 | 70.11  | 12.47   | 2.98    | 3.68  | 0.19  | <b>0.78</b> | <b>4.61</b> | 0.14   | <0.01  | 0.06  | 0.09  | 0.01    | <5     | <5     | <5          | <10    | <5     | <100   | <5     | 99     | <5    | 81    | <b>151</b> | 276    | 3.76  | 98.94   | 0.32 | 0.02  | 3.41 |
| 3674     | 890.00 | 891.00 | 74.46  | 11.38   | 2.67    | 2.22  | 0.42  | 4.21        | 1.22        | 0.15   | <0.01  | 0.04  | 0.02  | 0.02    | <5     | <5     | <5          | <10    | <5     | <100   | <5     | 85     | <5    | 91    | 56         | 294    | 2.07  | 98.95   | 0.11 | 0.01  | 3.23 |
| 3675     | 900.10 | 901.10 | 73.41  | 10.47   | 2.05    | 3.52  | 0.21  | 2.69        | 3.46        | 0.20   | 0.02   | 0.05  | 0.09  | 0.02    | <5     | <5     | <5          | <10    | <5     | <100   | 5      | 41     | 14    | 67    | <5         | 258    | 3.21  | 99.45   | 0.52 | 0.02  | 3.85 |
| 3677     | 909.50 | 910.80 |        |         |         |       |       |             |             |        |        |       |       |         |        |        |             |        |        |        |        |        |       |       |            |        |       |         |      |       |      |



## GEOLOGICAL LEGEND

- |                          |          |                                                                             |                          |                                  |
|--------------------------|----------|-----------------------------------------------------------------------------|--------------------------|----------------------------------|
| <input type="checkbox"/> | 10       | Late diabase dykes, Matachewan Type;                                        |                          |                                  |
| <input type="checkbox"/> | 11       | Lamprophyre dyke                                                            |                          |                                  |
|                          | <b>8</b> | <b><i>Altered and Metamorphosed Rocks</i></b>                               |                          |                                  |
| <input type="checkbox"/> | 8 (a)    | Carbonate rock                                                              | <input type="checkbox"/> | (c) Chlorite-carbonate rock      |
|                          | <b>6</b> | <b><i>Granitoid Intrusives</i></b>                                          |                          |                                  |
| <input type="checkbox"/> | (a)      | Granite                                                                     |                          |                                  |
| <input type="checkbox"/> | (b)      | Granodiorite                                                                |                          |                                  |
| <input type="checkbox"/> | (c)      | Quartz Monzonite                                                            |                          |                                  |
|                          | <b>5</b> | <b><i>Mafic Intrusives</i></b>                                              |                          |                                  |
| <input type="checkbox"/> | (a)      | Gabbro                                                                      | <input type="checkbox"/> | (f) fine to medium grained mafic |
| <input type="checkbox"/> | (d)      | Diorite                                                                     | <input type="checkbox"/> | (p) med. grained feldspar-phyric |
|                          | <b>4</b> | <b><i>Sediments</i></b>                                                     |                          |                                  |
| <input type="checkbox"/> | (a)      | Argillite                                                                   | <input type="checkbox"/> | (s) Siltstone +/- argillite      |
| <input type="checkbox"/> | (c)      | Chert                                                                       | <input type="checkbox"/> | (e) Sulphide-rich exhalites      |
| <input type="checkbox"/> | (g)      | Graphitic argillite/siltstone                                               | <input type="checkbox"/> | (l) Feldspathic quartzites       |
|                          | <b>3</b> | <b><i>Intermediate to Felsic Volcanics &amp; Subvolcanic Intrusives</i></b> |                          |                                  |
| <input type="checkbox"/> | (a)      | Rhyolite flows                                                              |                          |                                  |
| <input type="checkbox"/> | (b)      | Thin bedded felsic/intermediate tuff                                        |                          |                                  |
| <input type="checkbox"/> | (c)      | Quartz (+/- feldspar)phyric tuffs                                           |                          |                                  |
| <input type="checkbox"/> | (d)      | Quartz (+/- feldspar)phyric (sub-volcanic) intrusives                       |                          |                                  |
| <input type="checkbox"/> | (e)      | Quartz (+/- feldspar)phyric flows                                           |                          |                                  |
| <input type="checkbox"/> | (f)      | Felsic tuff, tuff breccia (non phyric)                                      |                          |                                  |
| <input type="checkbox"/> | (g)      | Feldspar crystal tuff, tuff bx                                              |                          |                                  |
| <input type="checkbox"/> | (h)      | Feldspar porphyry intrusives                                                |                          |                                  |
| <input type="checkbox"/> | (k)      | fg. felsic/intermed. dyke                                                   |                          |                                  |
|                          | <b>2</b> | <b><i>Mafic Volcanics</i></b>                                               |                          |                                  |
| <input type="checkbox"/> | (a)      | Massive                                                                     | <input type="checkbox"/> | (b) Breccia, flow bx             |
| <input type="checkbox"/> | (c)      | Coarse grained                                                              | <input type="checkbox"/> | (d) Pillowed flows               |
| <input type="checkbox"/> | (e)      | Variolitic (spherulitic) flows                                              | <input type="checkbox"/> | (f) Feldspar phyric (andesite)   |
| <input type="checkbox"/> | (l)      | Diabasic flow                                                               | <input type="checkbox"/> | (g) Amygular flow                |

### ABBREVIATIONS

|        |                       |
|--------|-----------------------|
| alt    | altered               |
| bdd    | banded                |
| bl     | bleached              |
| Cp     | chalcopyrite          |
| chl    | chlorite, chloritic   |
| ep     | epidote               |
| fg; cg | fine & coarse grained |
| gf     | graphite , graphitic  |
| mt     | magnetite             |
| Po     | pyrrhotite            |
| Py     | pyrite                |
| qv     | quartz vein           |
| Sph    | sphalerite            |
| ser    | sericite              |
| sh     | sheared               |

**Appendix II**

Assay Certificates

Au, Ag, Cu, Pb, Zn Geochemistry on core samples

Swastika Laboratories, Swastika, Ontario

8W-2142-RG1

8W-2143-RG1

8W-2711-RG1



Established 1928

# Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 2

## Geochemical Analysis Certificate

8W-2142-RG1

Company: **WESTERN KIDD RESOURCES INC.**

Date: AUG-13-08

Project:

Attn: **DAVID MEUNIER**

We hereby certify the following Geochemical Analysis of 58 CORE samples submitted JUL-23-08 by .

| Sample Number | Au PPB | Au Check PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPB | WRA PPM |
|---------------|--------|--------------|--------|--------|--------|--------|---------|
| 3551          | -      | -            | -      | -      | -      | -      | Results |
| 3552          | -      | -            | -      | -      | -      | -      | to      |
| 3553          | -      | -            | -      | -      | -      | -      | follow  |
| 3554          | NIL    | -            | 0.4    | 423    | 2      | 49     |         |
| 3555          | -      | -            | -      | -      | -      | -      |         |
| 3556          | -      | -            | -      | -      | -      | -      |         |
| 3557          | -      | -            | -      | -      | -      | -      |         |
| 3558          | -      | -            | -      | -      | -      | -      |         |
| 3560          | -      | -            | -      | -      | -      | -      |         |
| 3561          | -      | -            | -      | -      | -      | -      |         |
| 3562          | -      | -            | -      | -      | -      | -      |         |
| 3563          | -      | -            | -      | -      | -      | -      |         |
| 3564          | -      | -            | -      | -      | -      | -      |         |
| 3565          | NIL    | -            | 0.2    | 125    | 1      | 55     |         |
| 3566          | -      | -            | -      | -      | -      | -      |         |
| 3567          | -      | -            | -      | -      | -      | -      |         |
| 3569          | -      | -            | -      | -      | -      | -      |         |
| 3571          | -      | -            | -      | -      | -      | -      |         |
| 3572          | -      | -            | -      | -      | -      | -      |         |
| 3573          | -      | -            | -      | -      | -      | -      |         |
| 3574          | -      | -            | -      | -      | -      | -      |         |
| 3575          | -      | -            | -      | -      | -      | -      |         |
| 3576          | -      | -            | -      | -      | -      | -      |         |
| 3577          | -      | -            | -      | -      | -      | -      |         |
| 3578          | -      | -            | -      | -      | -      | -      |         |
| 3579          | 17     | 5            | 0.2    | 45     | 1      | 60     |         |
| 3580          | -      | -            | -      | -      | -      | -      |         |
| 3581          | -      | -            | -      | -      | -      | -      |         |
| 3582          | 22     | -            | 0.3    | 63     | 1      | 153    |         |
| 3583          | NIL    | -            | 0.2    | 78     | 1      | 28     |         |

Certified by *Denis Chute*



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## Geochemical Analysis Certificate

**8W-2142-RG1**

Company: **WESTERN KIDD RESOURCES INC.**

Date: **AUG-13-08**

Project:

Attn: **DAVID MEUNIER**

We hereby certify the following Geochemical Analysis of 58 CORE samples submitted JUL-23-08 by .

| Sample Number | Au PPB | Au Check PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPB | WRA PPM |
|---------------|--------|--------------|--------|--------|--------|--------|---------|
| 3584          | 24     | -            | 0.2    | 74     | 1      | 43     |         |
| 3585          | NIL    | -            | 0.2    | 73     | 1      | 61     |         |
| 3586          | -      | -            | -      | -      | -      | -      |         |
| 3587          | -      | -            | -      | -      | -      | -      |         |
| 3588          | 7      | -            | 0.4    | 241    | 16     | -      |         |
| 3589          | NIL    | -            | 0.2    | 64     | 2      | 139    |         |
| 3590          | 22     | -            | 0.2    | 80     | 1      | 98     |         |
| 3591          | 9      | -            | 0.2    | 96     | 1      | 88     |         |
| 3592          | -      | -            | -      | -      | -      | -      |         |
| 3593          | -      | -            | -      | -      | -      | -      |         |
| 3594          | -      | -            | -      | -      | -      | -      |         |
| 3595          | -      | -            | -      | -      | -      | -      |         |
| 3596          | 46     | -            | 0.2    | 11     | 1      | 35     |         |
| 3597          | -      | -            | -      | -      | -      | -      |         |
| 3598          | -      | -            | -      | -      | -      | -      |         |
| 3599          | -      | -            | -      | -      | -      | -      |         |
| 3600          | 79     | -            | 0.2    | 22     | 1      | 39     |         |
| 3601          | -      | -            | -      | -      | -      | -      |         |
| 3602          | 3      | -            | 0.2    | 30     | 1      | 23     |         |
| 3603          | -      | -            | -      | -      | -      | -      |         |
| 3604          | 14     | -            | 0.2    | 66     | 1      | 208    |         |
| 3605          | -      | -            | -      | -      | -      | -      |         |
| 3606          | -      | -            | -      | -      | -      | -      |         |
| 3607          | 17     | -            | 0.3    | 76     | 1      | 25     |         |
| 3608          | 12     | -            | 0.2    | 18     | 1      | 37     |         |
| 3609          | 5      | -            | 0.2    | 14     | 1      | 25     |         |
| 3610          | 5      | 3            | 0.2    | 69     | 1      | 66     |         |
| 3611          | 12     | -            | 0.2    | 71     | 1      | 48     |         |
| BLANK         | NIL    | -            | -      | -      | -      | -      |         |
| STD OxJ64     | 2448   | -            | -      | -      | -      | -      |         |

Certified by *Dennis Chute*



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## Geochemical Analysis Certificate

**8W-2143-RG1**

Company: **WESTERN KIDD RESOURCES INC.**

Date: **AUG-15-08**

Project:

Attn: **DAVID MEUNIER**

We hereby certify the following Geochemical Analysis of 51 CORE samples submitted JUL-23-08 by .

| Sample Number | Au PPB | Au Check PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPB | WRA PPM |
|---------------|--------|--------------|--------|--------|--------|--------|---------|
| 3612          | 7      | -            | 0.2    | 114    | 1      | 91     | RESULTS |
| 3613          | -      | -            | -      | -      | -      | -      | TO      |
| 3614          | -      | -            | -      | -      | -      | -      | FOLLOW  |
| 3615          | -      | -            | -      | -      | -      | -      |         |
| 3616          | 3      | -            | 0.2    | 89     | 1      | 35     |         |
| 3617          | -      | -            | -      | -      | -      | -      |         |
| 3618          | 3      | -            | 0.3    | 145    | 1      | 180    |         |
| 3619          | NIL    | -            | 0.2    | 44     | 1      | 56     |         |
| 3620          | NIL    | -            | 0.4    | 922    | 1      | 115    |         |
| 3621          | 5      | -            | 0.2    | 31     | 1      | 57     |         |
| 3622          | -      | -            | -      | -      | -      | -      |         |
| 3623          | -      | -            | -      | -      | -      | -      |         |
| 3624          | 3      | -            | 0.2    | 84     | 1      | 61     |         |
| 3625          | -      | -            | -      | -      | -      | -      |         |
| 3626          | -      | -            | -      | -      | -      | -      |         |
| 3627          | -      | -            | -      | -      | -      | -      |         |
| 3628          | -      | -            | -      | -      | -      | -      |         |
| 3629          | 9      | -            | 0.2    | 82     | 1      | 67     |         |
| 3630          | 7      | -            | 0.3    | 77     | 1      | 110    |         |
| 3631          | 5      | -            | 0.2    | 64     | 3      | 62     |         |
| 3632          | NIL    | -            | 0.2    | 100    | 1      | 73     |         |
| 3633          | -      | -            | -      | -      | -      | -      |         |
| 3634          | -      | -            | -      | -      | -      | -      |         |
| 3635          | 7      | 9            | 0.2    | 19     | 1      | 74     |         |
| 3641          | -      | -            | -      | -      | -      | -      |         |
| 3645          | -      | -            | -      | -      | -      | -      |         |
| 3646          | -      | -            | -      | -      | -      | -      |         |
| 3647          | 5      | -            | 0.2    | 70     | 1      | 48     |         |
| 3648          | 14     | -            | 0.2    | 130    | 1      | 45     |         |
| 3649          | -      | -            | -      | -      | -      | -      |         |

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## Geochemical Analysis Certificate

8W-2143-RG1

Company: **WESTERN KIDD RESOURCES INC.**

Date: AUG-15-08

Project:

Attn: **DAVID MEUNIER**

We hereby certify the following Geochemical Analysis of 51 CORE samples submitted JUL-23-08 by .

| Sample Number | Au<br>PPB | Au Check<br>PPB | Ag<br>PPM | Cu<br>PPM | Pb<br>PPM | Zn<br>PPB | WRA<br>PPM |
|---------------|-----------|-----------------|-----------|-----------|-----------|-----------|------------|
| 3653          | -         | -               | -         | -         | -         | -         | -          |
| 3654          | -         | -               | -         | -         | -         | -         | -          |
| 3655          | 9         | -               | 0.2       | 47        | 1         | 57        | -          |
| 3656          | -         | -               | -         | -         | -         | -         | -          |
| 3657          | -         | -               | -         | -         | -         | -         | -          |
| 3658          | 9         | -               | 1.1       | 1350      | 1         | 74        | -          |
| 3659          | NIL       | -               | 0.2       | 131       | 1         | 36        | -          |
| 3660          | 5         | -               | 0.3       | 264       | 1         | 35        | -          |
| 3661          | -         | -               | -         | -         | -         | -         | -          |
| 3662          | 5         | -               | 0.3       | 140       | 1         | 37        | -          |
| 3663          | 5         | -               | 0.3       | 156       | 1         | 37        | -          |
| 3664          | -         | -               | -         | -         | -         | -         | -          |
| 3665          | 10        | -               | 0.2       | 8         | 1         | 46        | -          |
| 3666          | -         | -               | -         | -         | -         | -         | -          |
| 3667          | -         | -               | -         | -         | -         | -         | -          |
| 3668          | -         | -               | -         | -         | -         | -         | -          |
| 3669          | -         | -               | -         | -         | -         | -         | -          |
| 3670          | -         | -               | -         | -         | -         | -         | -          |
| 3671          | -         | -               | -         | -         | -         | -         | -          |
| 3679          | -         | -               | -         | -         | -         | -         | -          |
| 3680          | -         | -               | -         | -         | -         | -         | -          |
| BLANK         | NIL       | -               | -         | -         | -         | -         | -          |
| STD OxJ64     | 2.38      | -               | -         | -         | -         | -         | -          |

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## Geochemical Analysis Certificate

8W-2711-RG1

Company: **WESTERN KIDD RESOURCES INC.**

Date: SEP-19-08

Project:

Attn: **DAVID MEUNIER**

We hereby certify the following Geochemical Analysis of 16 CORE samples submitted SEP-17-08 by .

| Sample Number | Au Au Check<br>ppb ppb | Ag<br>ppm | Co<br>ppm | Cu<br>ppm | Ni<br>ppm | Pb<br>ppm | Zn<br>ppm | Pt<br>ppb | Pd<br>ppb | WRA     |
|---------------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| 3636          | 12 18                  | 0.2       | 21        | 54        | 37        | 1         | 57        | <5        | <5        | RESULTS |
| 3637          | 9 -                    | 0.2       | 26        | 56        | 55        | 1         | 51        | <5        | <5        | TO      |
| 3638          | NIL -                  | 0.2       | -         | 55        | -         | 1         | 97        | -         | -         | FOLLOW  |
| 3639          | 7 -                    | 0.2       | -         | 55        | -         | 1         | 183       | -         | -         |         |
| 3640          | 3 -                    | 0.2       | -         | 54        | -         | 1         | 136       | -         | -         |         |
| 3642          | 3 -                    | 0.2       | -         | 58        | -         | 1         | 49        | -         | -         |         |
| 3643          | 3 -                    | 0.2       | -         | 58        | -         | 1         | 86        | -         | -         |         |
| 3644          | 3 -                    | 0.2       | -         | 11        | -         | 1         | 49        | -         | -         |         |
| 3650          | 3 -                    | 0.2       | -         | 35        | -         | 1         | 98        | -         | -         |         |
| 3651          | NIL -                  | 0.2       | -         | 23        | -         | 3         | 86        | -         | -         |         |
| 3652          | - -                    | -         | -         | -         | -         | -         | -         | -         | -         |         |
| 3672          | NIL -                  | 0.2       | -         | 41        | -         | 1         | 33        | -         | -         |         |
| 3673          | - -                    | -         | -         | -         | -         | -         | -         | -         | -         |         |
| 3674          | - -                    | -         | -         | -         | -         | -         | -         | -         | -         |         |
| 3675          | 7 -                    | 0.2       | -         | 51        | -         | 1         | 45        | -         | -         |         |
| 3676          | 2 -                    | 0.2       | -         | 45        | -         | 3         | 61        | -         | -         |         |
| BLANK         | NIL -                  | -         | -         | -         | -         | -         | -         | -         | -         |         |
| STD OxJ64     | 2373 -                 | -         | -         | -         | -         | -         | -         | -         | -         |         |

Certified by David Meunier

**Appendix III**

Whole Rock Lithochemistry, Analyses Sheets;  
Assayers Canada, Vancouver, B.C.

8W-2142-RL

8W-2143-RL

8W-2711-RL



**Assayers Canada**

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Report No : 8W2142RL

**WESTERN KIDD RESOURCES INC.**

Attention: David Meunier

Tel: (604) 327-3436 Fax: (604) 327-3423

Date : Nov-30-08

Project:

Sample type: pulp

**ICP-AES Whole Rock Assay**

Lithium Metaborate Fusion

| Sample Number | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | CaO % | MgO % | Na <sub>2</sub> O % | K <sub>2</sub> O % | TiO <sub>2</sub> % | P <sub>2</sub> O <sub>5</sub> % | MnO % | BaO % | Cr <sub>2</sub> O <sub>3</sub> % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %   |
|---------------|--------------------|----------------------------------|----------------------------------|-------|-------|---------------------|--------------------|--------------------|---------------------------------|-------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|-------|
| 3551          | 52.45              | 16.24                            | 9.52                             | 7.43  | 4.76  | 3.68                | 0.45               | 0.82               | 0.18                            | 0.14  | 0.01  | 0.02                             | <5     | 37     | 23     | <10    | 90     | <100   | 21     | 190    | 167   | 20    | 12     | 111    | 3.41  | 99.19   | 0.03 | 0.02  |
| 3552          | 54.37              | 15.28                            | 8.48                             | 10.12 | 3.93  | 2.35                | 0.24               | 0.71               | 0.16                            | 0.12  | 0.01  | 0.03                             | <5     | 34     | 34     | <10    | 73     | <100   | 19     | 83     | 146   | 17    | <5     | 96     | 3.12  | 98.97   | 0.05 | 0.07  |
| 3553          | 53.77              | 17.09                            | 8.12                             | 8.53  | 3.86  | 3.36                | 0.67               | 0.73               | 0.16                            | 0.12  | 0.02  | 0.02                             | <5     | 33     | 36     | <10    | 62     | <100   | 18     | 101    | 136   | 20    | 43     | 117    | 2.49  | 99.00   | 0.02 | 0.01  |
| 3554          | 60.09              | 14.61                            | 5.38                             | 9.20  | 2.24  | 2.56                | 1.20               | 0.57               | 0.14                            | 0.08  | 0.03  | 0.03                             | <5     | 30     | 389    | <10    | 47     | <100   | 14     | 156    | 106   | 16    | 24     | 93     | 2.59  | 98.78   | 0.15 | 0.06  |
| 3555          | 58.96              | 15.23                            | 7.24                             | 6.72  | 3.50  | 3.22                | 0.68               | 0.67               | 0.15                            | 0.10  | 0.02  | 0.02                             | <5     | 31     | 31     | <10    | 59     | <100   | 16     | 102    | 124   | 18    | 8      | 107    | 2.80  | 99.40   | 0.02 | 0.01  |
| 3556          | 56.83              | 15.58                            | 7.24                             | 8.21  | 3.52  | 3.00                | 0.64               | 0.67               | 0.15                            | 0.11  | 0.02  | 0.03                             | <5     | 30     | 9      | <10    | 60     | <100   | 17     | 180    | 125   | 19    | 10     | 108    | 2.45  | 98.51   | 0.02 | 0.01  |
| 3557          | 55.26              | 16.51                            | 8.49                             | 7.33  | 4.41  | 2.89                | 0.55               | 0.75               | 0.16                            | 0.11  | 0.02  | 0.02                             | <5     | 34     | 20     | <10    | 67     | <100   | 18     | 98     | 140   | 20    | 8      | 117    | 3.29  | 99.85   | 0.01 | 0.01  |
| 3558          | 56.70              | 15.63                            | 7.95                             | 6.63  | 4.02  | 2.42                | 1.72               | 0.68               | 0.15                            | 0.12  | 0.04  | 0.02                             | <5     | 30     | 7      | <10    | 59     | <100   | 17     | 220    | 134   | 19    | 12     | 109    | 3.11  | 99.25   | 0.05 | 0.02  |
| 3560          | 54.50              | 16.13                            | 8.61                             | 7.79  | 4.59  | 2.10                | 0.82               | 0.75               | 0.17                            | 0.12  | 0.03  | 0.02                             | <5     | 35     | 20     | <10    | 80     | <100   | 21     | 196    | 163   | 19    | 30     | 102    | 3.22  | 98.92   | 0.02 | 0.01  |
| 3561          | 55.17              | 15.66                            | 8.80                             | 7.66  | 4.51  | 2.33                | 0.92               | 0.74               | 0.16                            | 0.13  | 0.03  | 0.03                             | <5     | 36     | 39     | <10    | 75     | <100   | 20     | 178    | 154   | 18    | 15     | 101    | 2.98  | 99.19   | 0.01 | 0.14  |
| 3562          | 56.25              | 16.07                            | 8.21                             | 7.98  | 4.01  | 2.63                | 0.45               | 0.72               | 0.16                            | 0.11  | 0.01  | 0.02                             | <5     | 31     | <5     | <10    | 62     | <100   | 17     | 65     | 134   | 19    | 16     | 112    | 2.89  | 99.55   | 0.02 | 0.01  |
| 3563          | 57.40              | 15.94                            | 7.79                             | 6.57  | 3.99  | 3.58                | 0.82               | 0.70               | 0.16                            | 0.11  | 0.02  | 0.02                             | <5     | 31     | 19     | <10    | 61     | <100   | 17     | 131    | 130   | 19    | 25     | 111    | 2.10  | 99.24   | 0.02 | 0.01  |
| 3564          | 46.76              | 14.28                            | 13.44                            | 10.05 | 7.85  | 1.70                | 0.46               | 1.00               | 0.11                            | 0.19  | 0.01  | 0.03                             | <5     | 58     | 58     | <10    | 84     | <100   | 36     | 105    | 266   | 20    | 24     | 57     | 3.39  | 99.34   | 0.11 | 0.11  |
| 3565          | 48.74              | 13.96                            | 9.62                             | 11.11 | 5.84  | 0.78                | 1.18               | 0.84               | 0.13                            | 0.13  | 0.02  | 0.03                             | <5     | 46     | 77     | <10    | 70     | <100   | 27     | 54     | 196   | 20    | 12     | 79     | 7.24  | 99.68   | 0.87 | 0.04  |
| 3566          | 56.49              | 16.26                            | 7.82                             | 7.74  | 3.84  | 3.06                | 0.54               | 0.69               | 0.16                            | 0.11  | 0.02  | 0.02                             | <5     | 33     | 26     | <10    | 66     | <100   | 17     | 85     | 141   | 19    | 19     | 111    | 2.53  | 99.34   | 0.02 | 0.01  |
| 3567          | 62.71              | 14.82                            | 6.29                             | 3.85  | 3.88  | 4.53                | 0.40               | 0.65               | 0.15                            | 0.09  | 0.01  | 0.02                             | <5     | 28     | 18     | <10    | 57     | <100   | 16     | 93     | 119   | 17    | <5     | 106    | 2.26  | 99.72   | 0.02 | 0.01  |
| 3569          | 59.12              | 15.70                            | 7.58                             | 6.60  | 3.76  | 3.02                | 0.99               | 0.69               | 0.16                            | 0.10  | 0.03  | 0.02                             | <5     | 32     | 30     | <10    | 62     | <100   | 17     | 113    | 129   | 18    | <5     | 109    | 2.19  | 100.00  | 0.02 | 0.02  |
| 3571          | 57.10              | 15.52                            | 7.13                             | 6.70  | 4.42  | 2.01                | 0.93               | 0.68               | 0.16                            | 0.11  | 0.04  | 0.02                             | <5     | 31     | 8      | <10    | 62     | <100   | 16     | 136    | 136   | 18    | 8      | 108    | 5.00  | 99.86   | 0.41 | <0.01 |
| 3572          | 58.07              | 15.82                            | 7.83                             | 7.37  | 4.16  | 2.81                | 0.41               | 0.69               | 0.15                            | 0.11  | 0.02  | 0.02                             | <5     | 31     | 66     | <10    | 59     | <100   | 16     | 138    | 130   | 18    | 23     | 108    | 2.42  | 99.94   | 0.03 | 0.06  |
| 3573          | 57.30              | 15.57                            | 8.70                             | 7.30  | 3.73  | 3.04                | 0.55               | 0.84               | 0.15                            | 0.11  | 0.02  | 0.02                             | <5     | 34     | 5      | <10    | 44     | <100   | 18     | 144    | 166   | 16    | <5     | 98     | 2.50  | 99.88   | 0.02 | <0.01 |
| 3574          | 58.71              | 15.88                            | 7.29                             | 7.06  | 3.84  | 2.67                | 1.11               | 0.69               | 0.15                            | 0.12  | 0.03  | 0.02                             | <5     | 28     | 25     | <10    | 57     | <100   | 17     | 152    | 127   | 18    | 6      | 109    | 2.31  | 99.93   | 0.02 | 0.01  |
| 3575          | 58.78              | 15.78                            | 7.30                             | 6.20  | 3.82  | 2.77                | 1.47               | 0.67               | 0.16                            | 0.10  | 0.04  | 0.01                             | <5     | 29     | 107    | <10    | 57     | <100   | 17     | 173    | 129   | 18    | <5     | 107    | 2.38  | 99.55   | 0.02 | 0.03  |
| 3576          | 51.91              | 17.08                            | 8.58                             | 9.58  | 4.55  | 3.67                | 0.89               | 0.68               | 0.15                            | 0.11  | 0.02  | 0.03                             | <5     | 31     | 5      | <10    | 59     | <100   | 18     | 134    | 129   | 18    | 63     | 101    | 2.29  | 99.58   | 0.01 | 0.02  |
| 3577          | 52.16              | 16.78                            | 8.63                             | 6.92  | 4.76  | 3.32                | 3.68               | 0.71               | 0.15                            | 0.10  | 0.08  | 0.02                             | <5     | 28     | <5     | <10    | 51     | <100   | 18     | 167    | 129   | 18    | 11     | 106    | 2.02  | 99.38   | 0.02 | 0.01  |
| 3578          | 50.69              | 17.41                            | 9.06                             | 8.27  | 5.14  | 4.08                | 1.22               | 0.72               | 0.16                            | 0.11  | 0.02  | 0.02                             | <5     | 32     | <5     | <10    | 62     | <100   | 18     | 112    | 132   | 18    | <5     | 106    | 2.67  | 99.61   | 0.01 | 0.02  |
| 3579          | 48.68              | 16.27                            | 9.19                             | 6.90  | 4.98  | 1.33                | 3.45               | 0.82               | 0.17                            | 0.12  | 0.11  | 0.01                             | <5     | 31     | <5     | <10    | 33     | <100   | 17     | 48     | 138   | 19    | 19     | 110    | 7.16  | 99.22   | 0.99 | 0.06  |
| 3580          | 51.98              | 16.72                            | 8.42                             | 9.52  | 4.67  | 3.08                | 1.22               | 0.69               | 0.16                            | 0.11  | 0.02  | 0.03                             | <5     | 30     | <5     | <10    | 61     | <100   | 18     | 88     | 136   | 18    | 11     | 101    | 2.36  | 99.04   | 0.03 | 0.02  |
| 3581          | 49.97              | 17.50                            | 8.79                             | 8.27  | 5.28  | 4.22                | 1.16               | 0.71               | 0.16                            | 0.12  | 0.02  | 0.02                             | <5     | 31     | <5     | <10    | 62     | <100   | 18     | 116    | 130   | 18    | <5     | 104    | 2.88  | 99.14   | 0.02 | 0.01  |
| 3582          | 45.69              | 19.57                            | 9.80                             | 10.52 | 3.68  | 4.44                | 0.99               | 1.10               | 0.20                            | 0.14  | 0.01  | 0.03                             | <5     | 40     | <5     | <10    | 55     | <100   | 26     | 151    | 186   | 21    | 61     | 98     | 3.02  | 99.26   | 0.10 | 0.14  |
| 3583          | 48.13              | 17.79                            | 7.14                             | 11.64 | 2.63  | 4.71                | 1.68               | 0.93               | 0.19                            | 0.12  | 0.02  | 0.03                             | <5     | 36     | 29     | <10    | 53     | <100   | 22     | 124    | 160   | 19    | <5     | 83     | 4.02  | 99.08   | 0.57 | 0.19  |

These elements are not included in the total column: C, S

Sample is fused with Lithium metaborate and dissolved in dilute HCL/HNO3.

**Assayers Canada**

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Report No : 8W2142RL

**WESTERN KIDD RESOURCES INC.**

Attention: David Meunier

Tel: (604) 327-3436 Fax: (604) 327-3423

Date : Nov-30-08

Project:

Sample type: pulp

**ICP-AES Whole Rock Assay**

Lithium Metaborate Fusion

| Sample Number | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | CaO % | MgO % | Na <sub>2</sub> O % | K <sub>2</sub> O % | TiO <sub>2</sub> % | P <sub>2</sub> O <sub>5</sub> % | MnO % | BaO % | Cr <sub>2</sub> O <sub>3</sub> % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %  |
|---------------|--------------------|----------------------------------|----------------------------------|-------|-------|---------------------|--------------------|--------------------|---------------------------------|-------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|------|
| 3584          | 46.86              | 20.34                            | 8.48                             | 10.31 | 3.02  | 5.12                | 0.92               | 1.10               | 0.22                            | 0.13  | 0.01  | 0.03                             | <5     | 45     | 10     | <10    | 70     | <100   | 27     | 157    | 189   | 23    | 10     | 99     | 2.67  | 99.27   | 0.09 | 0.21 |
| 3585          | 48.77              | 18.39                            | 9.45                             | 9.17  | 3.68  | 4.28                | 0.84               | 1.14               | 0.21                            | 0.16  | 0.01  | 0.03                             | <5     | 48     | 19     | <10    | 75     | <100   | 28     | 145    | 198   | 23    | 58     | 99     | 3.08  | 99.28   | 0.08 | 0.18 |
| 3586          | 39.75              | 16.79                            | 9.73                             | 14.68 | 4.19  | 3.06                | 0.55               | 1.18               | 0.21                            | 0.15  | <0.01 | 0.03                             | <5     | 35     | <5     | <10    | 40     | <100   | 29     | 125    | 201   | 25    | 11     | 108    | 8.99  | 99.37   | 1.46 | 0.03 |
| 3587          | 49.62              | 19.32                            | 8.25                             | 8.40  | 3.24  | 5.25                | 0.87               | 1.00               | 0.18                            | 0.13  | 0.01  | 0.03                             | <5     | 43     | 26     | <10    | 72     | <100   | 25     | 129    | 180   | 21    | 54     | 90     | 2.70  | 99.06   | 0.16 | 0.21 |
| 3588          | 45.13              | 18.24                            | 12.94                            | 10.67 | 3.62  | 2.72                | 0.93               | 0.96               | 0.19                            | 0.12  | 0.02  | 0.03                             | <5     | 67     | 158    | <10    | 72     | <100   | 24     | 155    | 174   | 20    | 1283   | 90     | 3.61  | 99.41   | 0.05 | 2.23 |
| 3589          | 45.62              | 19.38                            | 10.05                            | 10.61 | 4.19  | 3.12                | 1.40               | 0.96               | 0.17                            | 0.12  | 0.03  | 0.03                             | <5     | 35     | <5     | <10    | 66     | <100   | 24     | 159    | 168   | 23    | 127    | 93     | 3.44  | 99.20   | 0.16 | 0.29 |
| 3590          | 49.37              | 16.72                            | 10.83                            | 9.24  | 5.20  | 3.10                | 0.60               | 0.85               | 0.15                            | 0.13  | 0.01  | 0.03                             | <5     | 36     | 27     | <10    | 31     | <100   | 22     | 136    | 165   | 29    | 199    | 133    | 2.85  | 99.17   | 0.10 | 0.38 |
| 3591          | 53.72              | 14.46                            | 13.12                            | 6.76  | 3.12  | 2.76                | 0.36               | 1.10               | 0.28                            | 0.14  | 0.01  | 0.01                             | <5     | 43     | 20     | <10    | <5     | <100   | 18     | 114    | 72    | 31    | 57     | 151    | 3.46  | 99.34   | 0.29 | 0.76 |
| 3592          | 50.30              | 16.39                            | 10.14                            | 9.45  | 6.46  | 2.64                | 0.81               | 0.72               | 0.13                            | 0.12  | 0.02  | 0.02                             | <5     | 35     | 21     | <10    | 97     | <100   | 20     | 130    | 145   | 17    | 52     | 89     | 2.45  | 99.73   | 0.03 | 0.02 |
| 3593          | 44.82              | 17.03                            | 9.85                             | 14.63 | 4.04  | 2.07                | 0.26               | 1.04               | 0.21                            | 0.12  | <0.01 | 0.02                             | <5     | 37     | <5     | <10    | 17     | <100   | 24     | 105    | 177   | 21    | 89     | 100    | 5.44  | 99.60   | 0.82 | 0.02 |
| 3594          | 52.48              | 15.93                            | 8.98                             | 9.44  | 4.08  | 5.02                | 0.23               | 1.11               | 0.22                            | 0.12  | <0.01 | 0.03                             | <5     | 38     | <5     | <10    | 16     | <100   | 26     | 52     | 177   | 22    | 27     | 106    | 1.75  | 99.43   | 0.13 | 0.04 |
| 3595          | 48.80              | 16.20                            | 10.49                            | 7.82  | 5.26  | 4.98                | 0.68               | 1.18               | 0.24                            | 0.15  | 0.01  | 0.02                             | <5     | 43     | 14     | <10    | 14     | <100   | 28     | 93     | 185   | 24    | 80     | 112    | 2.61  | 98.51   | 0.12 | 0.06 |
| 3596          | 69.31              | 8.92                             | 4.76                             | 6.58  | 2.29  | 2.88                | 0.23               | 0.58               | 0.11                            | 0.07  | <0.01 | 0.02                             | <5     | 22     | <5     | <10    | <5     | <100   | 15     | 63     | 89    | 13    | 69     | 55     | 2.98  | 98.76   | 0.34 | 0.01 |
| 3597          | 50.42              | 16.71                            | 9.73                             | 9.01  | 5.72  | 3.64                | 0.68               | 0.73               | 0.15                            | 0.12  | 0.02  | 0.02                             | <5     | 33     | <5     | <10    | 55     | <100   | 21     | 146    | 149   | 18    | 19     | 91     | 2.43  | 99.46   | 0.01 | 0.02 |
| 3598          | 51.24              | 16.24                            | 9.88                             | 9.20  | 5.13  | 3.07                | 0.73               | 0.81               | 0.15                            | 0.14  | 0.02  | 0.03                             | <5     | 42     | 22     | <10    | 83     | <100   | 24     | 137    | 184   | 19    | <5     | 88     | 3.03  | 99.72   | 0.01 | 0.01 |
| 3599          | 51.47              | 16.14                            | 9.84                             | 7.74  | 6.24  | 2.60                | 0.78               | 0.84               | 0.16                            | 0.12  | 0.02  | 0.02                             | <5     | 42     | 11     | <10    | 76     | <100   | 24     | 134    | 195   | 20    | <5     | 92     | 3.94  | 99.97   | 0.01 | 0.01 |
| 3600          | 51.88              | 8.40                             | 5.43                             | 13.77 | 3.40  | 0.32                | 2.19               | 0.41               | 0.08                            | 0.09  | 0.05  | 0.03                             | <5     | 27     | <5     | <10    | 44     | <100   | 13     | 19     | 97    | 13    | <5     | 44     | 13.27 | 99.34   | 2.61 | 0.01 |
| 3601          | 72.45              | 12.48                            | 2.66                             | 1.75  | 0.97  | 4.28                | 1.31               | 0.15               | 0.01                            | 0.03  | 0.05  | 0.03                             | <5     | 6      | <5     | <10    | <5     | <100   | <5     | 71     | <5    | 86    | <5     | 283    | 2.42  | 98.63   | 0.03 | 0.01 |
| 3602          | 74.54              | 11.29                            | 2.91                             | 1.52  | 0.68  | 3.47                | 1.84               | 0.14               | 0.01                            | 0.02  | 0.07  | 0.04                             | <5     | 5      | <5     | <10    | <5     | <100   | <5     | 70     | <5    | 80    | <5     | 262    | 2.53  | 99.09   | 0.02 | 0.08 |
| 3603          | 73.85              | 11.86                            | 2.68                             | 1.86  | 0.78  | 2.93                | 2.53               | 0.14               | 0.01                            | 0.03  | 0.10  | 0.03                             | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 66     | <5    | 86    | <5     | 273    | 1.68  | 98.52   | 0.01 | 0.02 |
| 3604          | 53.09              | 16.05                            | 9.50                             | 5.46  | 4.75  | 2.57                | 3.64               | 0.89               | 0.16                            | 0.14  | 0.09  | 0.03                             | <5     | 38     | 13     | <10    | 66     | <100   | 23     | 100    | 171   | 28    | 173    | 104    | 3.07  | 99.51   | 0.05 | 0.11 |
| 3605          | 52.29              | 16.01                            | 9.53                             | 9.29  | 5.25  | 2.78                | 0.88               | 0.83               | 0.15                            | 0.12  | 0.02  | 0.03                             | <5     | 38     | 9      | <10    | 79     | <100   | 24     | 145    | 183   | 20    | 38     | 90     | 2.49  | 99.74   | 0.03 | 0.12 |
| 3606          | 73.54              | 11.97                            | 2.95                             | 1.70  | 0.34  | 2.37                | 4.10               | 0.14               | 0.01                            | 0.04  | 0.09  | 0.03                             | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 49     | <5    | 86    | <5     | 280    | 1.35  | 98.67   | 0.01 | 0.15 |
| 3607          | 73.10              | 12.09                            | 3.13                             | 2.21  | 0.75  | 3.34                | 1.82               | 0.15               | 0.01                            | 0.03  | 0.06  | 0.03                             | <5     | 7      | 47     | <10    | <5     | <100   | <5     | 68     | <5    | 88    | <5     | 292    | 2.00  | 98.78   | 0.07 | 0.23 |
| 3608          | 73.88              | 11.92                            | 3.34                             | 1.79  | 0.59  | 3.10                | 2.35               | 0.14               | 0.01                            | 0.04  | 0.08  | 0.04                             | <5     | 6      | <5     | <10    | <5     | <100   | <5     | 71     | <5    | 86    | <5     | 276    | 1.55  | 98.86   | 0.01 | 0.16 |
| 3609          | 73.99              | 12.07                            | 2.89                             | 2.43  | 0.78  | 3.51                | 1.52               | 0.15               | 0.01                            | 0.03  | 0.06  | 0.04                             | <5     | 5      | <5     | <10    | <5     | <100   | <5     | 86     | <5    | 84    | <5     | 287    | 1.34  | 98.86   | 0.03 | 0.07 |
| 3610          | 52.56              | 16.26                            | 9.38                             | 8.89  | 4.61  | 2.21                | 1.45               | 0.82               | 0.16                            | 0.14  | 0.03  | 0.02                             | <5     | 40     | 77     | <10    | 80     | <100   | 24     | 142    | 186   | 21    | <5     | 96     | 2.93  | 99.53   | 0.04 | 0.16 |
| 3611          | 52.03              | 16.36                            | 10.14                            | 8.20  | 5.32  | 2.84                | 1.15               | 0.84               | 0.16                            | 0.14  | 0.03  | 0.02                             | <5     | 41     | 56     | <10    | 73     | <100   | 24     | 128    | 186   | 21    | <5     | 93     | 2.32  | 99.60   | 0.03 | 0.14 |

These elements are not included in the total column: C, S

Sample is fused with Lithium metaborate and dissolved in dilute HCL/HNO3.

**Assayers Canada**

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 8W2143RL

Date : Dec-01-08

**WESTERN KIDD RESOURCES INC.**

Attention: David Meunier

Project:

Sample type: pulp

**ICP-AES Whole Rock Assay**

Lithium Metaborate Fusion

| Sample Number | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | CaO % | MgO % | Na <sub>2</sub> O % | K <sub>2</sub> O % | TiO <sub>2</sub> % | P <sub>2</sub> O <sub>5</sub> % | MnO % | BaO % | Cr <sub>2</sub> O <sub>3</sub> % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %   |
|---------------|--------------------|----------------------------------|----------------------------------|-------|-------|---------------------|--------------------|--------------------|---------------------------------|-------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|-------|
| 3612          | 51.46              | 15.90                            | 11.68                            | 7.45  | 5.59  | 2.63                | 1.00               | 1.01               | 0.19                            | 0.16  | 0.03  | 0.03                             | <5     | 46     | 82     | <10    | 57     | <100   | 27     | 123    | 205   | 24    | <5     | 104    | 2.80  | 100.00  | 0.04 | 0.38  |
| 3613          | 51.46              | 15.48                            | 10.42                            | 7.40  | 5.21  | 4.01                | 0.62               | 1.25               | 0.24                            | 0.16  | 0.02  | 0.02                             | <5     | 49     | 22     | <10    | 30     | <100   | 31     | 107    | 237   | 27    | <5     | 111    | 2.79  | 99.15   | 0.06 | 0.09  |
| 3614          | 51.67              | 16.47                            | 8.76                             | 7.51  | 6.93  | 2.34                | 1.46               | 0.85               | 0.15                            | 0.11  | 0.05  | 0.03                             | <5     | 37     | 8      | <10    | 81     | <100   | 25     | 121    | 198   | 20    | <5     | 93     | 3.56  | 99.96   | 0.02 | 0.02  |
| 3615          | 66.39              | 14.03                            | 5.40                             | 3.40  | 2.99  | 2.03                | 1.33               | 0.27               | 0.03                            | 0.06  | 0.06  | 0.03                             | <5     | 13     | <5     | <10    | 8      | <100   | 7      | 76     | 24    | 88    | 5      | 301    | 3.10  | 99.17   | 0.03 | 0.02  |
| 3616          | 71.56              | 11.46                            | 4.53                             | 5.34  | 1.33  | 1.44                | 0.71               | 0.24               | 0.03                            | 0.04  | 0.02  | 0.04                             | <5     | 13     | 77     | <10    | 13     | <100   | 6      | 64     | 23    | 65    | <5     | 223    | 1.72  | 98.51   | 0.03 | 0.42  |
| 3617          | 50.53              | 16.68                            | 10.15                            | 9.66  | 4.84  | 3.91                | 0.25               | 0.83               | 0.15                            | 0.15  | 0.01  | 0.03                             | <5     | 41     | 30     | <10    | 82     | <100   | 25     | 122    | 188   | 20    | <5     | 92     | 2.38  | 99.63   | 0.03 | 0.02  |
| 3618          | 53.32              | 16.54                            | 8.10                             | 11.00 | 2.76  | 3.85                | 0.08               | 0.92               | 0.17                            | 0.14  | <0.01 | 0.04                             | <5     | 41     | 103    | <10    | 60     | <100   | 24     | 119    | 166   | 24    | 178    | 97     | 2.47  | 99.48   | 0.12 | 0.26  |
| 3619          | 50.80              | 16.86                            | 9.22                             | 8.57  | 3.81  | 4.42                | 0.18               | 0.97               | 0.19                            | 0.16  | <0.01 | 0.03                             | <5     | 38     | 12     | <10    | 67     | <100   | 27     | 90     | 195   | 24    | <5     | 100    | 4.00  | 99.26   | 0.21 | 0.16  |
| 3620          | 66.23              | 10.54                            | 6.59                             | 5.89  | 2.87  | 2.83                | 0.24               | 0.45               | 0.12                            | 0.08  | 0.01  | 0.03                             | <5     | 57     | 737    | <10    | 113    | <100   | 11     | 91     | 95    | 9     | 129    | 53     | 3.10  | 99.11   | 0.29 | 0.16  |
| 3621          | 50.70              | 15.86                            | 8.59                             | 10.60 | 3.37  | 2.06                | 1.61               | 0.79               | 0.15                            | 0.11  | 0.02  | 0.02                             | <5     | 35     | 10     | <10    | 47     | <100   | 17     | 129    | 148   | 14    | <5     | 91     | 5.76  | 99.68   | 0.77 | 0.01  |
| 3622          | 54.75              | 16.29                            | 8.97                             | 7.55  | 3.98  | 3.87                | 0.47               | 0.81               | 0.15                            | 0.12  | 0.02  | 0.02                             | <5     | 35     | 10     | <10    | 45     | <100   | 19     | 160    | 160   | 16    | <5     | 94     | 1.95  | 99.01   | 0.03 | 0.01  |
| 3623          | 54.02              | 16.47                            | 9.40                             | 8.05  | 4.52  | 3.20                | 0.49               | 0.76               | 0.16                            | 0.13  | 0.02  | 0.02                             | <5     | 35     | 41     | <10    | 79     | <100   | 21     | 125    | 162   | 19    | <5     | 101    | 2.36  | 99.67   | 0.03 | 0.02  |
| 3624          | 51.15              | 15.45                            | 10.15                            | 8.31  | 4.14  | 1.58                | 1.59               | 0.99               | 0.18                            | 0.14  | 0.03  | 0.02                             | <5     | 39     | 59     | <10    | 58     | <100   | 22     | 105    | 207   | 22    | <5     | 101    | 5.51  | 99.30   | 0.39 | 0.03  |
| 3625          | 55.19              | 16.30                            | 8.30                             | 7.49  | 4.24  | 4.58                | 0.31               | 0.72               | 0.16                            | 0.12  | 0.01  | 0.03                             | <5     | 36     | 20     | <10    | 69     | <100   | 19     | 148    | 151   | 18    | 10     | 95     | 2.35  | 99.87   | 0.03 | 0.01  |
| 3626          | 52.35              | 15.88                            | 9.19                             | 8.37  | 4.53  | 2.18                | 0.93               | 0.73               | 0.15                            | 0.12  | 0.02  | 0.03                             | <5     | 36     | <5     | <10    | 76     | <100   | 20     | 138    | 154   | 18    | 10     | 94     | 5.32  | 99.86   | 0.03 | <0.01 |
| 3627          | 53.83              | 16.57                            | 8.98                             | 7.46  | 4.63  | 4.04                | 1.09               | 0.79               | 0.17                            | 0.13  | 0.04  | 0.02                             | <5     | 38     | 28     | <10    | 76     | <100   | 21     | 148    | 167   | 20    | <5     | 101    | 1.69  | 99.51   | 0.02 | 0.01  |
| 3628          | 51.25              | 17.45                            | 10.24                            | 7.50  | 4.93  | 4.16                | 0.55               | 0.87               | 0.17                            | 0.17  | 0.02  | 0.03                             | <5     | 39     | 26     | <10    | 87     | <100   | 26     | 129    | 192   | 21    | 17     | 94     | 1.94  | 99.34   | 0.03 | 0.02  |
| 3629          | 51.76              | 16.65                            | 9.89                             | 9.26  | 4.57  | 2.71                | 0.23               | 0.83               | 0.16                            | 0.14  | 0.01  | 0.03                             | <5     | 39     | 46     | <10    | 81     | <100   | 24     | 131    | 188   | 19    | 64     | 90     | 3.30  | 99.61   | 0.05 | 0.02  |
| 3630          | 52.94              | 16.23                            | 8.81                             | 11.14 | 4.09  | 2.64                | 0.21               | 0.79               | 0.15                            | 0.12  | 0.01  | 0.03                             | <5     | 37     | 35     | <10    | 74     | <100   | 23     | 156    | 179   | 19    | 61     | 86     | 2.13  | 99.36   | 0.04 | 0.02  |
| 3631          | 52.51              | 15.89                            | 9.00                             | 9.79  | 4.21  | 3.08                | 0.21               | 0.80               | 0.15                            | 0.13  | 0.01  | 0.03                             | <5     | 38     | 30     | <10    | 84     | <100   | 24     | 118    | 180   | 19    | 13     | 89     | 3.67  | 99.54   | 0.27 | 0.02  |
| 3632          | 52.23              | 16.20                            | 9.49                             | 9.06  | 4.78  | 3.85                | 0.53               | 0.83               | 0.15                            | 0.14  | 0.01  | 0.02                             | <5     | 42     | 68     | <10    | 96     | <100   | 25     | 107    | 182   | 20    | 33     | 90     | 2.31  | 99.67   | 0.08 | 0.02  |
| 3633          | 54.42              | 15.99                            | 9.22                             | 9.08  | 4.09  | 3.41                | 0.30               | 0.78               | 0.14                            | 0.13  | 0.01  | 0.05                             | <5     | 37     | 42     | <10    | 80     | <100   | 24     | 115    | 189   | 19    | 12     | 84     | 2.13  | 99.82   | 0.08 | 0.04  |
| 3634          | 67.07              | 13.07                            | 4.41                             | 8.01  | 1.39  | 0.97                | 1.10               | 0.24               | 0.05                            | 0.05  | 0.03  | 0.03                             | <5     | 8      | 44     | <10    | 10     | <100   | 6      | 167    | 14    | 57    | 121    | 202    | 2.31  | 98.79   | 0.11 | 0.09  |
| 3635          | 63.67              | 14.49                            | 4.43                             | 8.45  | 1.31  | 0.99                | 1.99               | 0.26               | 0.04                            | 0.04  | 0.04  | 0.03                             | <5     | 9      | <5     | <10    | <5     | <100   | 7      | 96     | 17    | 63    | 81     | 208    | 2.87  | 98.65   | 0.35 | 0.11  |
| 3641          | 44.21              | 17.93                            | 11.56                            | 11.74 | 5.66  | 3.79                | 0.47               | 0.80               | 0.15                            | 0.13  | 0.01  | 0.03                             | <5     | 39     | <5     | <10    | 59     | <100   | 24     | 112    | 154   | 19    | 45     | 84     | 2.93  | 99.47   | 0.27 | 0.03  |
| 3645          | 67.39              | 14.28                            | 4.56                             | 3.73  | 0.67  | 4.48                | 1.62               | 0.42               | 0.09                            | 0.05  | 0.01  | 0.03                             | <5     | 8      | <5     | <10    | <5     | <100   | 7      | 48     | <5    | 57    | 54     | 278    | 1.54  | 98.93   | 0.17 | 0.02  |
| 3646          | 42.30              | 21.35                            | 9.30                             | 15.64 | 2.70  | 1.99                | 0.66               | 1.07               | 0.20                            | 0.12  | 0.02  | 0.04                             | <5     | 46     | 24     | <10    | 63     | <100   | 26     | 133    | 196   | 22    | 64     | 93     | 3.77  | 99.21   | 0.53 | 0.25  |
| 3647          | 45.13              | 17.02                            | 12.44                            | 10.38 | 5.62  | 3.69                | 0.53               | 1.19               | 0.23                            | 0.16  | 0.03  | 0.02                             | <5     | 47     | <5     | <10    | 24     | <100   | 28     | 110    | 183   | 24    | 88     | 112    | 2.83  | 99.33   | 0.23 | 0.39  |
| 3648          | 45.96              | 17.91                            | 11.18                            | 11.11 | 5.25  | 4.06                | 0.72               | 0.96               | 0.18                            | 0.13  | 0.02  | 0.04                             | <5     | 48     | 55     | <10    | 51     | <100   | 27     | 66     | 162   | 22    | 69     | 97     | 1.86  | 99.44   | 0.10 | 0.67  |
| 3649          | 43.55              | 18.52                            | 10.71                            | 11.25 | 6.42  | 4.12                | 1.13               | 1.01               | 0.19                            | 0.20  | 0.04  | 0.04                             | <5     | 52     | 30     | <10    | 72     | <100   | 31     | 103    | 184   | 18    | 95     | 76     | 1.99  | 99.24   | 0.12 | 0.20  |

These elements are not included in the total column: C, S

Sample is fused with Lithium metaborate and dissolved in dilute HCL/HNO3.

**Assayers Canada**

**WESTERN KIDD RESOURCES INC.**

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Report No : 8W2143RL

Attention: David Meunier

Tel: (604) 327-3436 Fax: (604) 327-3423

Date : Dec-01-08

Project:

Sample type: pulp

**ICP-AES Whole Rock Assay**

Lithium Metaborate Fusion

| Sample Number | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | CaO % | MgO % | Na <sub>2</sub> O % | K <sub>2</sub> O % | TiO <sub>2</sub> % | P <sub>2</sub> O <sub>5</sub> % | MnO % | BaO % | Cr <sub>2</sub> O <sub>3</sub> % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %   |
|---------------|--------------------|----------------------------------|----------------------------------|-------|-------|---------------------|--------------------|--------------------|---------------------------------|-------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|-------|
| 3653          | 43.57              | 18.52                            | 10.83                            | 11.03 | 6.26  | 4.32                | 0.70               | 1.07               | 0.20                            | 0.17  | 0.02  | 0.05                             | <5     | 53     | 67     | <10    | 60     | <100   | 33     | 74     | 200   | 20    | 148    | 81     | 2.35  | 99.16   | 0.11 | 0.12  |
| 3654          | 73.59              | 12.23                            | 2.52                             | 4.41  | 0.22  | 1.21                | 2.68               | 0.14               | 0.01                            | 0.04  | 0.05  | 0.03                             | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 112    | <5    | 83    | 196    | 259    | 1.96  | 99.13   | 0.04 | 0.03  |
| 3655          | 72.61              | 12.72                            | 3.43                             | 4.43  | 0.31  | 0.40                | 3.48               | 0.15               | 0.02                            | 0.03  | 0.07  | 0.04                             | <5     | <5     | 19     | <10    | <5     | <100   | <5     | 70     | <5    | 89    | 142    | 284    | 0.98  | 98.73   | 0.02 | 0.22  |
| 3656          | 47.49              | 17.79                            | 10.71                            | 8.68  | 6.32  | 4.34                | 0.31               | 0.78               | 0.15                            | 0.11  | 0.01  | 0.02                             | <5     | 38     | <5     | <10    | 61     | <100   | 23     | 144    | 159   | 18    | 105    | 93     | 2.18  | 98.96   | 0.02 | 0.01  |
| 3657          | 69.75              | 13.54                            | 2.80                             | 6.37  | 0.51  | 1.87                | 1.96               | 0.16               | 0.02                            | 0.03  | 0.04  | 0.04                             | <5     | <5     | <5     | <10    | 522    | <100   | <5     | 100    | <5    | 85    | 145    | 284    | 1.34  | 98.53   | 0.06 | 0.01  |
| 3658          | 45.94              | 17.72                            | 13.85                            | 7.71  | 8.46  | 1.54                | 1.14               | 0.78               | 0.29                            | 0.13  | 0.03  | 0.02                             | <5     | 66     | 1256   | <10    | 62     | <100   | 23     | 124    | 144   | 24    | 284    | 116    | 1.60  | 99.42   | 0.02 | 0.25  |
| 3659          | 44.56              | 18.43                            | 11.18                            | 9.79  | 7.20  | 4.08                | 0.91               | 0.97               | 0.18                            | 0.12  | 0.03  | 0.04                             | <5     | 51     | 77     | <10    | 67     | <100   | 30     | 124    | 176   | 20    | 431    | 82     | 1.50  | 99.08   | 0.04 | 0.17  |
| 3660          | 49.73              | 16.16                            | 10.73                            | 8.98  | 6.03  | 4.83                | 0.34               | 0.98               | 0.19                            | 0.13  | 0.01  | 0.04                             | <5     | 57     | 226    | <10    | 59     | <100   | 30     | 115    | 172   | 21    | 6      | 85     | 1.25  | 99.48   | 0.04 | 0.33  |
| 3661          | 52.79              | 16.68                            | 9.89                             | 7.99  | 4.34  | 3.95                | 0.86               | 0.97               | 0.20                            | 0.12  | 0.02  | 0.02                             | <5     | 38     | <5     | <10    | 44     | <100   | 19     | 155    | 159   | 21    | <5     | 120    | 1.29  | 99.18   | 0.02 | 0.01  |
| 3662          | 48.86              | 17.29                            | 10.32                            | 9.14  | 5.80  | 3.93                | 0.66               | 0.82               | 0.18                            | 0.14  | 0.02  | 0.03                             | <5     | 42     | 124    | <10    | 83     | <100   | 24     | 145    | 182   | 20    | 58     | 96     | 1.83  | 99.09   | 0.04 | 0.02  |
| 3664          | 50.35              | 16.73                            | 10.14                            | 8.70  | 5.60  | 4.78                | 0.44               | 0.85               | 0.17                            | 0.15  | 0.01  | 0.03                             | <5     | 44     | 5      | <10    | 89     | <100   | 25     | 120    | 183   | 21    | 38     | 103    | 0.88  | 98.91   | 0.01 | 0.01  |
| 3665          | 68.63              | 8.96                             | 5.36                             | 6.49  | 2.90  | 2.18                | 0.38               | 0.42               | 0.09                            | 0.09  | 0.01  | 0.03                             | <5     | 20     | <5     | <10    | 34     | <100   | 13     | 62     | 89    | 10    | 28     | 44     | 2.96  | 98.51   | 0.62 | <0.01 |
| 3666          | 72.27              | 12.04                            | 3.60                             | 4.53  | 0.17  | 1.39                | 4.18               | 0.13               | 0.01                            | 0.08  | 0.08  | 0.03                             | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 112    | <5    | 87    | <5     | 274    | 0.25  | 98.81   | 0.17 | 0.05  |
| 3667          | 48.60              | 15.53                            | 12.02                            | 8.27  | 5.96  | 4.03                | 0.70               | 1.26               | 0.23                            | 0.16  | 0.01  | 0.02                             | <5     | 48     | 6      | <10    | 26     | <100   | 31     | 124    | 236   | 26    | <5     | 109    | 2.12  | 98.97   | 0.02 | 0.01  |
| 3668          | 48.36              | 15.35                            | 12.41                            | 10.39 | 6.14  | 3.52                | 0.28               | 1.14               | 0.19                            | 0.16  | <0.01 | 0.03                             | <5     | 50     | 22     | <10    | 49     | <100   | 33     | 175    | 237   | 21    | <5     | 82     | 1.96  | 100.00  | 0.01 | 0.02  |
| 3669          | 46.50              | 17.80                            | 10.92                            | 10.90 | 6.82  | 2.15                | 0.46               | 0.93               | 0.17                            | 0.14  | 0.01  | 0.03                             | <5     | 50     | 14     | <10    | 110    | <100   | 25     | 128    | 191   | 17    | <5     | 71     | 2.68  | 99.58   | 0.05 | 0.02  |
| 3670          | 48.67              | 14.69                            | 11.05                            | 11.39 | 7.68  | 2.03                | 1.36               | 0.66               | 0.07                            | 0.17  | 0.02  | 0.03                             | <5     | 52     | 63     | <10    | 97     | <100   | 36     | 94     | 263   | 15    | <5     | 40     | 1.98  | 99.88   | 0.06 | 0.08  |
| 3671          | 71.41              | 11.89                            | 2.88                             | 3.74  | 0.28  | 2.38                | 3.21               | 0.14               | 0.01                            | 0.07  | 0.06  | 0.02                             | <5     | 5      | <5     | <10    | <5     | <100   | <5     | 96     | <5    | 83    | <5     | 256    | 3.11  | 99.25   | 0.56 | 0.01  |
| 3679          | 56.63              | 15.47                            | 8.14                             | 7.99  | 4.21  | 4.00                | 0.62               | 0.72               | 0.14                            | 0.12  | 0.01  | 0.03                             | <5     | 34     | 17     | <10    | 76     | <100   | 20     | 116    | 155   | 18    | <5     | 92     | 1.69  | 99.82   | 0.03 | 0.01  |
| 3680          | 54.74              | 15.84                            | 8.04                             | 11.87 | 3.82  | 2.35                | 0.67               | 0.70               | 0.14                            | 0.11  | 0.01  | 0.03                             | <5     | 34     | 78     | <10    | 70     | <100   | 19     | 119    | 157   | 17    | <5     | 89     | 1.54  | 99.94   | 0.04 | 0.01  |

These elements are not included in the total column: C, S

Sample is fused with Lithium metaborate and dissolved in dilute HCL/HNO3.

**Assayers Canada**

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 8W2711RL

Date : Dec-02-08

**Western Kidd Resources Inc**

Attention: David Meunier

Project:

Sample type: Core

**ICP-AES Whole Rock Assay**

Lithium Metaborate Fusion

| Sample Number | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | CaO % | MgO % | Na <sub>2</sub> O % | K <sub>2</sub> O % | TiO <sub>2</sub> % | P <sub>2</sub> O <sub>5</sub> % | MnO % | BaO % | Cr <sub>2</sub> O <sub>3</sub> % | Be ppm | Co ppm | Cu ppm | Nb ppm | Ni ppm | Rb ppm | Sc ppm | Sr ppm | V ppm | Y ppm | Zn ppm | Zr ppm | LOI % | Total % | C %  | S %  |
|---------------|--------------------|----------------------------------|----------------------------------|-------|-------|---------------------|--------------------|--------------------|---------------------------------|-------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|---------|------|------|
| 3639          | 68.49              | 11.51                            | 4.67                             | 10.40 | 0.52  | 0.39                | 0.22               | 0.19               | 0.02                            | 0.05  | <0.01 | 0.02                             | <5     | <5     | <5     | <10    | <5     | <100   | 5      | 79     | 20    | 65    | 303    | 194    | 2.57  | 99.11   | 0.21 | 0.71 |
| 3643          | 58.58              | 15.23                            | 7.53                             | 7.33  | 2.26  | 1.90                | 1.95               | 0.59               | 0.11                            | 0.10  | 0.05  | 0.01                             | <5     | 19     | <5     | <10    | 21     | <100   | 13     | 167    | 102   | 21    | 85     | 111    | 4.33  | 100.00  | 0.58 | 1.06 |
| 3644          | 70.76              | 12.30                            | 3.58                             | 3.91  | 0.63  | 2.04                | 2.52               | 0.44               | 0.09                            | 0.06  | 0.06  | 0.01                             | <5     | <5     | <5     | <10    | <5     | <100   | 8      | 97     | 16    | 63    | 30     | 283    | 3.17  | 99.62   | 0.24 | 0.13 |
| 3652          | 74.32              | 11.40                            | 2.79                             | 1.73  | 0.30  | 2.57                | 3.50               | 0.16               | 0.01                            | 0.05  | 0.08  | 0.02                             | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 54     | <5    | 90    | 32     | 283    | 1.95  | 98.91   | 0.09 | 0.11 |
| 3672          | 66.76              | 13.03                            | 3.04                             | 4.79  | 1.09  | 2.39                | 3.32               | 0.21               | 0.07                            | 0.05  | 0.07  | 0.02                             | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 272    | <5    | 68    | 43     | 233    | 3.63  | 98.51   | 0.36 | 0.12 |
| 3673          | 70.11              | 12.47                            | 2.98                             | 3.68  | 0.19  | 0.78                | 4.61               | 0.14               | <0.01                           | 0.06  | 0.09  | 0.01                             | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 99     | <5    | 81    | 151    | 276    | 3.76  | 98.94   | 0.32 | 0.02 |
| 3674          | 74.46              | 11.38                            | 2.67                             | 2.22  | 0.42  | 4.21                | 1.22               | 0.15               | <0.01                           | 0.04  | 0.02  | 0.02                             | <5     | <5     | <5     | <10    | <5     | <100   | <5     | 85     | <5    | 91    | 56     | 294    | 2.07  | 98.95   | 0.11 | 0.01 |
| 3675          | 73.41              | 10.47                            | 2.05                             | 3.52  | 0.21  | 2.69                | 3.46               | 0.20               | 0.02                            | 0.05  | 0.09  | 0.02                             | <5     | <5     | <5     | <10    | <5     | <100   | 5      | 41     | 14    | 67    | <5     | 258    | 3.21  | 99.45   | 0.52 | 0.02 |

These elements are not included in the total column: C, S

Sample is fused with Lithium metaborate and dissolved in dilute HCL/HNO3.