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2839 ON-101
Matheson, ON
Canada, P0K 1N0
T: 705-273-1077
www.mcewenmining.com

Assessment Work Report

Black Fox Mine Property: Exploration Diamond Drilling at the Gibson Target in 2021

for submission to:

Ministry of Northern Development, Mines, Natural Resources and Forestry
Larder Lake Mining Division, Northeastern Ontario

February 28, 2022

Prepared by:
Ken Tylee, P.Geol.
Exploration Manager (Ontario)

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Executive Summary

This assessment report summarizes the technical operations and results obtained from diamond drill hole **#21GF-1348**, completed by Vanguard Mining Corp. between June 8-25, 2021 (18 days duration), under the direction of their client McEwen Mining. This NQ-diameter hole reached a maximum penetration depth (down-hole path) of 699.0 metres. A total of \$C 103,451.86 in exploration expenditures were directly attributed to this activity.

The drill hole is located within McEwen's *Gibson* exploration project within Hislop Township, east of Matheson, Ontario. The drilling site is readily accessible via a series of provincial highways and well-maintained municipal roads within the Black River – Matheson district. It is situated approximately three kilometres southeast of McEwen's underground gold mining operations at the Black Fox - Froome deposit.

Collar co-ordinates for hole #21GF-1348 were collected with Differential GPS precision (NAD-83, Zone 17N): $X=550725.6$, $Y=5373293.1$, $Z=291.0$ metres.

Sporadic exploration campaigns conducted at Gibson since the 1980's culminated in Goldpost Resources' 1989 excavation of a 120-metre-deep underground access ramp and bulk-sample assessment of an auriferous vein system. McEwen's exploration diamond drilling efforts at Gibson in 2021 were designed to test for the presence of additional shallow gold-bearing epithermal Quartz-Ankerite veins in the immediate vicinity.

Hole #21GF-1348 was essentially a southeast-oriented 'probe' into an under-explored quadrant of the Gibson stratigraphic assemblage. It was successful in coring a dozen prospective siliceous veins along its 699-metre path through variably altered/mineralized, fine-grained Sediments and Volcanic flows.

A total of 403 core samples were submitted to a commercial laboratory for FA-AA gold assaying process. Eight encouraging assay intercepts have been reported where weighted averages exceeded 1.5 g/t Au (gold content) – with one value reaching 39.4 g/t Au over 0.6 metres length.

All 2021 drill sites at Gibson were thoroughly cleaned of debris and mechanically contoured-levelled by the drilling contractor upon completion. Clearly-labelled wooden identification pickets have been erected at the collar locations.

Follow-up exploration drilling is warranted for 2022-2023 to better determine the economic potential of the vein sets present at Gibson. McEwen's plans shall be finalized in mid-2022, pending release of an independent Preliminary Economic Analysis (PEA) for the Black Fox assets which include this key exploration site.

The field work described in this report was conducted under the direct supervision of the author, Ken Tylee (P.Geo. #0695), employed McEwen since 2017 as the exploration manager for Ontario.

All relevant core-logging information, assay certificates, contractor expenditures etc. related to the completion of #21GF-1348 have been described and/or appended. All drill core from McEwen's drilling programme in 2021 has been logged, sampled, catalogued, and stacked within a secure storage site adjacent to the company's Mill operations on Hwy 101 East near Shillington, Ontario.

Location and Access

McEwen Mining retains a relatively large group of contiguous mining claims and lease parcels situated within Hislop Township - approximately 12 kilometres east of the rural town of Matheson, in northeastern Ontario. This land package is essentially centered on the Black Fox gold deposit that has been in production since 1997. The drilling operations summarized within this report occurred on the Gibson target situated approximately three kilometres southeast of the active mining infrastructure.



Figure 1: Regional location map - Black Fox Mine and Mill operations in relation to area towns, highways, and key gold deposits. Note location of the Gibson target within the Black Fox mining property.

These parcels are managed by Joel Bastien – employed with Company’s exploration team based at the Stock Mill facility near Shillington. The lands/taxes/access are administered by the Black River – Matheson municipal district. Assessment and mining statistics report to the historic Larder Lake Mining Division.

The preferred travel-route into the Gibson site is via Highway 101 East from Matheson, turning south onto the all-weather gravel Hislop Concession Road #2 (aka Tamarack Road). The surface clearing and waste-rock remnants from the former Goldpost excavation are easily found approximately 0.9 kilometres south of the Pike River bridge. Numerous unmaintained, clay-filled ATV trails and tractor roads run westwards into Gibson from Tamarack Road. McEwen’s security team (based at the Black Fox mine site) must be notified of any-all plans to visit the Company’s exploration sites.

Property Description

The Black Fox property is wholly-owned (100%) by McEwen Mining Inc. Several segments-units are subject to underlying royalties on gold production (if applicable). 32 separate PIN identifiers are used for the complex combination of contiguous: unpatented (staked) claims, patents, mineral leases, and adjacent surface rights (only). All are situated within Hislop Township and are administered (from a mining perspective) by the Larder Lake Mining Division.

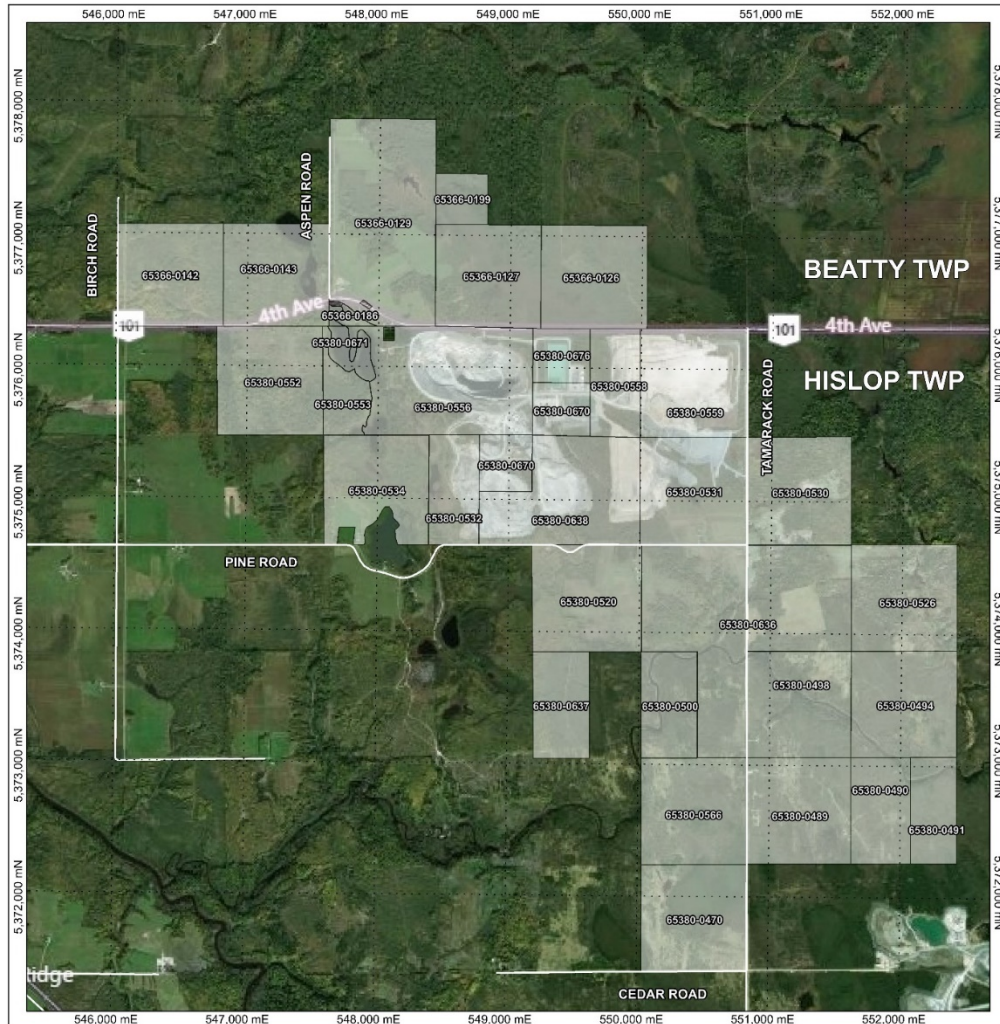


Figure 2: Satellite image - Black Fox mine area - with individual PIN-numbered mining parcels delineated.

All mining parcels at Black Fox are included/managed by the Black Fox Mine Closure Plan Amendment, dated September 2019.

Pin #	Lease	Crown Grant	Claim	Lot & Concession	Parce
65366-0126	-	CP1689, CP1690, CP1802, CP1894, CP1895, CP1896, CP1897, CP3160, CP5912, CP6242, CP6416, CP6661		S1/2 Lot 5 con 1	24577
65366-0127	-	CP1056		Pt Lot 6 con 1	14572
65366-0129	-	CP1988, NP3636		Pt Lot 7 con 1	23874
65366-0142	-	TP7748		S1/2 Lot 9 con 1	3265
65366-0143	-	CP966		S Pt Lot 8 con 1	4150
65366-0186	-	CP1988		S Pt Lot 7 con 1	13005
65366-0199	108180	-	L1115059	Pt Lot 6 con 1	
65380-0470	-	TP6687		S1/2 Lot 4 Con 4	2618
65380-0489	-	NP5052		N1/2 Lot 3 con 4	16262
65380-0490	-	CP2063		NW Pt Lot 2 con 4	16265
65380-0491	-	CP2064		NE Pt Lot 2 con 4	16266
65380-0494	-	TP492		S1/2 Lot 2 con 5	1544
65380-0498	-	CP467		S Pt Broken Lot 3 con 5	3852
65380-0500	-	CP2929		W1/2 of S1/2 Lot 4 con 5	7057
65380-0520	-	TP857/CP3420		W1/2 of N1/2 Lot 4 con 5 & N1/2 Lot 5 con 5	23687
65380-0526	-	TP3696		N1/2 lot 2 con 5	2563
65380-0530	-	CP123		S1/2 Lot 3 con 6	3310
65380-0531	-	CP1329		S1/2 Lot 4 con 6	10706
65380-0532	-	CP2561		SW 1/4 Lot 6 con 6	6413
65380-0534	-	TP6616		Pt Broken Lot 7 con 6	388
65380-0552	-	NNDP1155		N1/2 Lot 8 con 6	7745
65380-0553	-	TP7063		Pt N Pt Lot 7 con 6	4707
65380-0556	-	TP3747/TP7063		N1/2 Lot 6 con 6 & Pt N Pt Broken Lot 7 con 6	23876
65380-0558	-	CP5862		Pt NE 1/4 Lot 5 con 6	11511
65380-0559	-	CP350		N1/2 Lot 4 con 6	3393
65380-0566	-	CP495/TP2285		N1/2 Lot 4 con 4	23777
65380-0636	108420	-	LS12572, LS12573	N1/2 of N1/2 Lot 4 con 5	1735
	108421	-	LS12568, LS12569, LS12570, LS12571, LS12574, LS12575, LS12576, LS12577	E1/2 of S1/2 Lot 4 con 5 & S1/2 of N1/2 Lt 4 con 5 & N1/2 Lot 3 con 5	
65380-0637	109227	-	L547989, L547990	W1/2 of S1/2 Lot 5 con 5	1726
65380-0638	-	-	L531728, L531729, L531730, L531731, L547915	S1/2 Lot 5 con 6, SE1/4 S1/2 Lot 6 con 6	
65380-0670	108179	-	L1048334	Pt Lot 5 con 6	
	-	-	L1048335	Pt Lot 6 Con 6	
65380-0671	108181	-	L1113087	Pt Lot 7 con 6	
65380-0676	108264	-	L1048333	Pt Lot 5 con 6	

Table 1: Black Fox Property – List of mining claims/parcels & location – sorted by PIN numbering identification system. Red text indicates 2 parcels where 2021 assessment work is described within this report.

Geological Setting

The Matheson area is centrally located in the Abitibi greenstone belt of the Superior Province of the Canadian Shield. This Archean belt is comprised of deformed and metamorphosed volcanics and sedimentary rocks, and granitoid batholiths, ranging in age from 2,745 to 2,665 Ma.

McEwen's exploration properties within the Matheson-Shillington region are ideally situated within the central segment of the prolific Destor Porcupine Fault Zone (DPFZ); a regional structure that has been attributed to hosting 75+ million ounces of gold production within northeastern Ontario since 1910. Approximately one million ounces have been generated at the Black Fox operations since the 1997 initiation of mining operations.

The DPFZ separates underlying sedimentary rocks to the north (Porcupine Group Metasediments) from ultramafic and mafic volcanic rocks to the south (Tisdale Volcanics). The Black Fox gold deposit and Grey Fox resource cluster are comprised of a complex series of mineralized zones and individual siliceous veins emplaced within an intercalated series of highly altered Mafic (basalt) and talc-chlorite Ultramafic volcanic flow rocks. At Black Fox, this structurally deformed (or ‘prepared’) assemblage lies immediately south of a local roll or flexure in the DPFZ conduit.

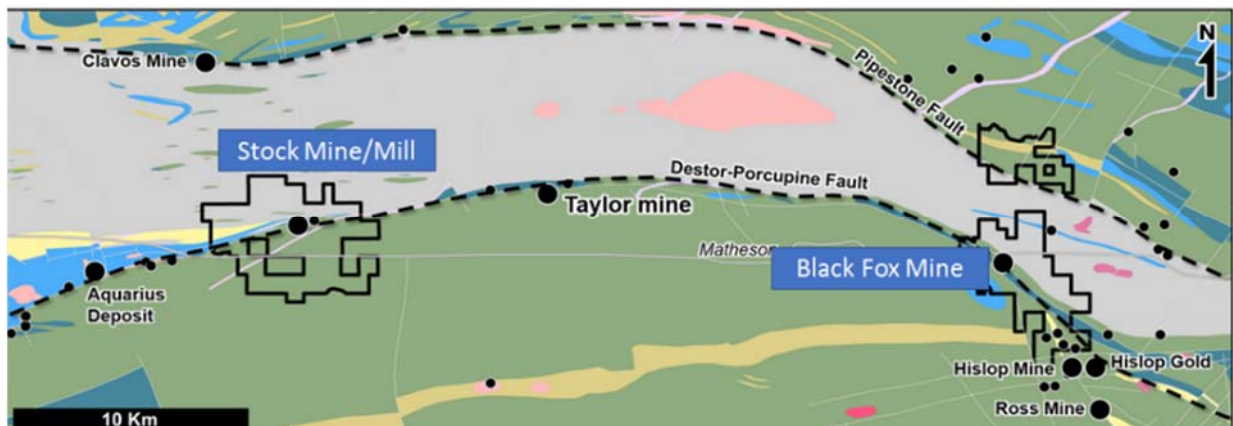


Figure 3: Schematic geological map of the Matheson area - highlighting location of McEwen’s two operational sites, relative to the underlying geological sequence:

- Grey: Porcupine Group Sediments = interbedded clastic sediments, 2.68 BY age
- Green: Archean (Tisdale) Volcanics = predominated by mafic-ultramafic volcanic flows

Felsic porphyries may be found within both groups and are typically altered by sericite and/or varying degrees of silicification. Gold sometimes occurs in the heavily silicified “cherty” porphyries that are heavily fractured, as well as at the contacts of altered porphyry bodies in association with disseminated pyrite mineralization and quartz veining.

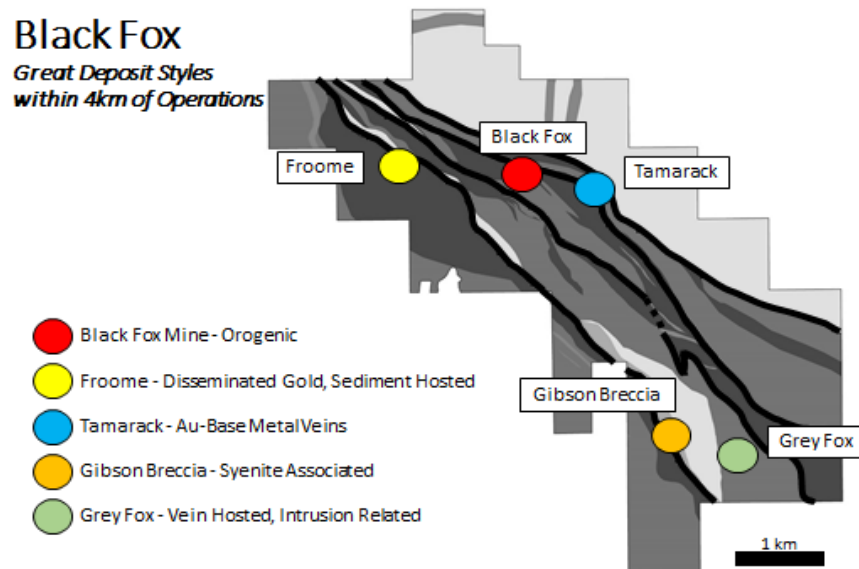


Figure 4: Schematic geological map of the Black Fox property showing the location of the key gold zones.

Previous Work

The successful gold production history of the Ross Mine (995,832 ounces mined 1936-1989) in Hislop Township has provided incentive for local exploration efforts in the Ramore-Holtyre-Matheson area since the 1950's. Successful delineation of the high-grade 'Gibson' vein set in 1986-1989 by 17,550 metres of drilling prompted Goldpost Resources to excavate an access decline/ramp to the 120-metre level in 1989.



Photograph 1: Aerial View (photo circa 1989 - looking westwards) showing 'footprint' of the Goldpost Operations

A moderate bulk sample programme was designed to verify the grade/extents/continuity of a single, north-east trending, quartz vein system within the Gibson Felsic Intrusive (syenite). Limited on-vein drifting at two levels generated 2913 ounces of gold, from selected muck averaging 0.31 ounces/ton.

Several phases of exploration drilling were carried out between 1996-2015 by a succession of companies including Noranda, Brigus, Apollo, and Primero; internal records suggest 69 holes were completed within 500 metres of the historic Gibson ramp. Nothing on file suggests these efforts were successful at delineating and classifying new resources onsite.

McEwen utilised up to two contract drill rigs in 2018-2019 to assess the potential of a gold-bearing breccia zone within the Gibson Syenite, lying approximately 200 metres of the historic ramp extents. A total of 32,104 meters of drilling at Gibson was able to outline the breccia system over 500 metres strike (southwards) to a depth of 800 metres. One of the key intercepts reported (see Dec 3, 2019, press release) shows that hole 18GF-1079 intersected a broad interval of mineralization within the intrusion, which returned 3.1 g/t Au over 34 metres, including 10.8 g/t Au over 6 metres (core lengths).



Photograph 2: sawn surface of NQ core showing the breccia pattern of deformation observed in hole #18GF-1079 and the later-stage pyrite enhancement of the fractures

Follow-up drilling in 2019 tested below this key Gibson intercept; hole 19GF-1106 extended the mineralization by 250 metres down-dip with a high-grade (but narrower) interval of 16.9 g/t Au over 3 metres (core length), within a 60-metre-wide envelope of hematite-silica alteration and anomalous (pyrite-chalcopyrite) sulphide mineralization.

The company's 2019 drilling focus shifted 'across the road' to Grey Fox... abundant delineation drilling led to publishing new resource estimate for that separate cluster of gold zones: 888,000 gold ounces at 7.1 g/t in the Indicated category (see news release from May 19th, 2020). McEwen remained focused on Grey Fox in 2020; no field work was performed at the Gibson site.

2021 Assessment Work Operations

Diamond drilling operations within the Grey Fox and Gibson project area commenced on April 17th and continued at a steady pace until September 14th. At one point - up to 4 contracted rigs were operating simultaneously within a 800x800 metre block of land.

Drilling at Gibson (7 holes) during 2021 was distinctly re-oriented towards the southeast - approximately perpendicular to the drilling trends of previous exploration campaigns. This new 'attack angle' was designed to test for the presence of VG-bearing Quartz-Ankerite vein-sets trending/striking towards the northeast, across the (Intrusive-Sediment) geologic assemblage. This vector would replicate the typical orientation of the auriferous veins intercepted in 2019 at Grey Fox, approximately 300 metres to the east of Gibson.

Hole #**21GF-1348** was chosen for assessment-credit application. This NQ-sized hole was drilled on a 10-4 shift schedule by contractor Vanguard Drilling, between June 8-25, 2021, to a depth (down-hole) of 699.0 metres.

Prior to collaring - the crew utilised a rented TN-14 gyro-compass to accurately locate and align the hole's final starting position – minimizing the effect of the strong magnetic field in the region.

The drillers rotated/installed NW-casing through the sandy-till until entering bedrock at a depth of 11 metres. They immediately commenced NQ-diameter coring (47.6 mm) and proceeded to an ultimate depth of 699.0 metres. No significant operational issues or impediments were reported.

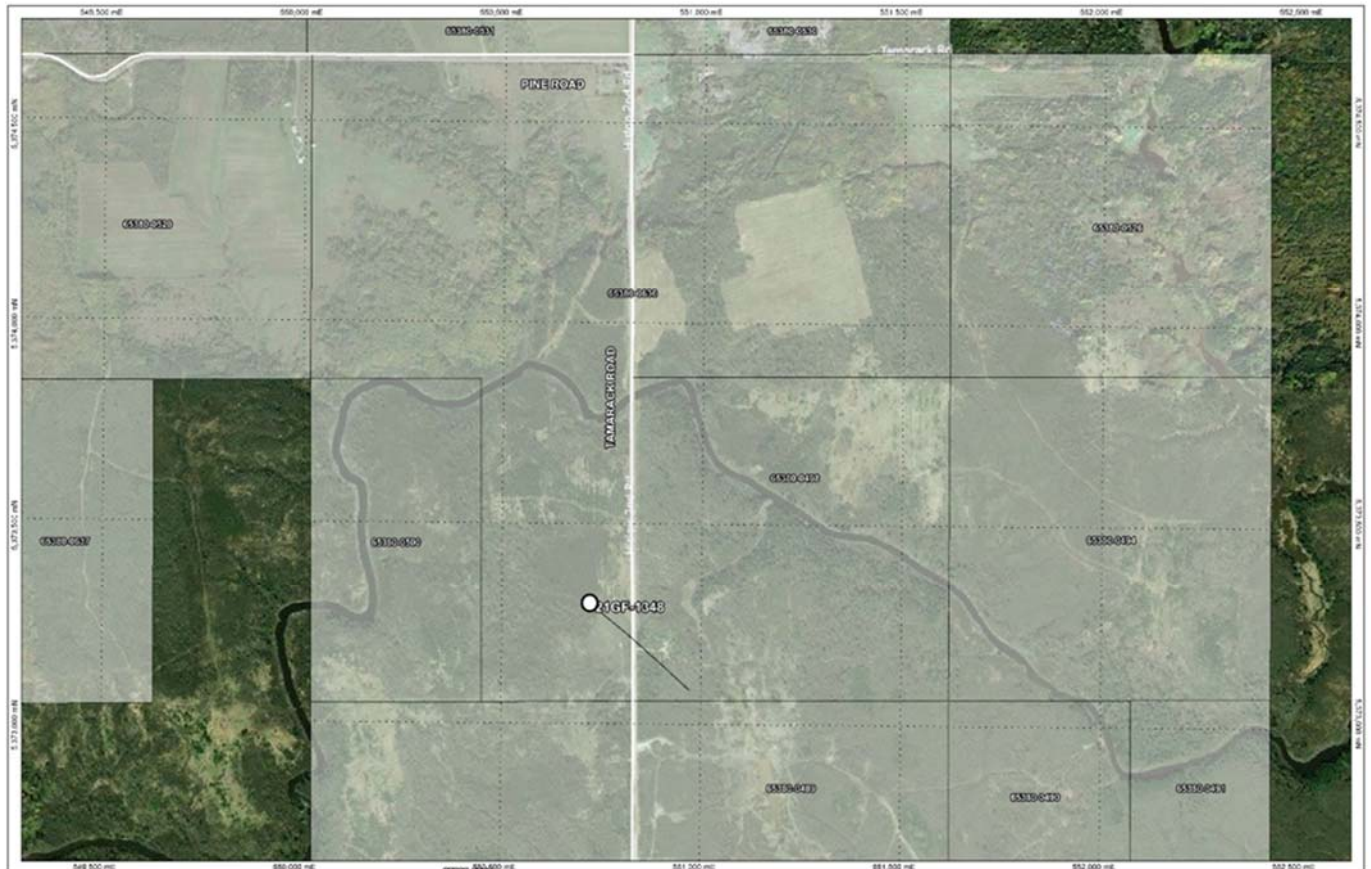


Figure 5: Satellite image - Drill hole location map showing the path of #21GF-1348 and adjacent PIN numbered parcel boundaries..

Vanguard follows industry-standard operations for the core recovery. The drill core is removed from the core tube-carrier and immediately placed into wooden core boxes capable of holding 4.5 metres of core. During the coring procedures, drillers place a small wooden block identifying the downhole length of overburden, and progressively place depth marker blocks at 3-metre intervals of core. Upon filling, the core boxes are immediately closed-sealed (fibre tape) and then delivered daily to the exploration trailers at McEwen's mill operations near Shillington.

Accurate tracking of the hole's deflection-deviation was made via a (north-seeking) *EZ-Gyro* tool (rented via Reflex Instruments). Readings were digitally collected and filed (automatically, into Reflex's internet 'hub') at approximately 50 metre intervals, as the coring proceeded to depth.

McEwen prefers that their drillers leave all casing (through overburden) in the ground upon completion of the hole. Once the rig departed the site of #21GF-1348, senior technician Joel Bastien inspected the proximity (clean, safe) and generated a 'as-drilled' location utilising a rental *DeviSight* differential GPS

tool - accurate to +/- 30cm. A brightly painted and labelled wooden picket (approximately 2 metre length) was inserted into the ground at the base of the steel casing.

Project	ID #	X-COLLAR	Y-COLLAR	Z-COLLAR	Hole LENGTH	Bearing	DIP
Gibson	21GF-1348	550725.60	5373293.10	291.00	699.0	124.00	-62.50

Table 2: Drill Hole #21GF-1348's collar coordinates (UTM NAD-83, Zone 17N) and orientation details.

Core-logging of hole #21GF-1348 was conducted by senior exploration geologist, Sean Farrell (P.Ge.) between June 9-28th. Sean is a full-time member of McEwen's regional exploration team based at the Stock Mill facility.

McEwen's documented logging procedures are summarized below:

- Once the boxes are 'on-bench', the core is best-fitted together and aligned to ensure contiguity and proper alignment of any structure fabric (aka 'dock & lock').
- The geologist then marks-off 1 metre standard intervals and measures recovery percentages (over the 3-metre core run) and observes fracture patterns, later-stage infills, etc. All info is automatically captured by the *Datamine* (DH Logger module) software's pull-down menu.
- The geologist then selects and quantifies the main lithological unit (from a dozen area-typical choices), carefully describes alteration, mineralization intensity and style. Time is taken to record and measure structural features including foliations, offsets-displacements, and ductile deformations of linear flow features. *Datamine* utilizes separate 'tabs' for structural observations, major vein descriptions, etc.
- All core is photographed after logging - using a modern digital SLR-style camera from an elevated perspective (step-ladder) to capture an image-record of 3-5 boxes, at a time. These images are downloaded and labelled (standard numbering format) and stored with the drill logging records-tabs.

The basic stratigraphic assemblage logged in #21GF-1348 follows (see appended log for details):

0-11m Overburden (NW Casing)

11-510.15m Interbedded fine-grained clastic Sediments – intruded at 2 locations by Felsic Dykes

510.15-699.0m Intercalated Mafic-Ultramafic Volcanic flows – locally altered

699.0m Hole Terminated

Sampling Procedures and Assaying

A total of 403 core samples were delineated for collection from hole #21GF-1348.

McEwen employees follow an industry-standard set of sampling and subsequent QAQC practises in place. The logging geologist selects the sample intervals during the progression through the core; intervals are marked directly onto the core with grease pencil (china-marker). They are typically limited to 0.3 (minimum) and 1.5 (maximum) metric core-lengths. Sample limits are selected geologically (vs. convenient repetitive intervals) for the feature being studied. Where-ever possible, key contacts or boundary features, such as lithologic borders, are not crossed.

Tyvek-paper sample tags currently include a unique sample-number *bar-code* in the print-design. Each sample was given a number, in triplicate, with 1) one portion of the sample tag remaining in the sample book, 2) one portion being sent to the lab with the sample, and 3) the last portion stapled into the core box at the end of the sample interval. All sample books are labelled (marker, on the spine), archived into boxes, and stored adjacent to the sampling facility.

Drill core that has not been selected for sampling is removed from the logging benches immediately and cross-piled onto wooden pallets. These are held outside for several days to permit further review, and/or allow technicians time to staple aluminum box ID labels to the box-ends.

Exploration drill core samples are sawn within the Mill's 'sea-can' sampling room. Core is cut into two equal halves utilising industry-standard 12-14" diamond-tip blades running on 3HP motors – known as 'Vancor Saws'. One half of the core sample (consistent selection) is returned to the original core box in the proper progressive order-sequence. That sample's corresponding ticket-stub is stapled into the core box for that specific sample interval. The core surface is marked with the sample number, as well. The other half of the sawn core is collected and tagged (insertion of the bar-coded Tyvek tag) into plastic bags. These bags are typically pre-numbered (by the worker) with a marker-pen. They bags are promptly sealed (stapled or taped) and inserted into large Canvas-Plastic 'rice' bags (generally 8-12 samples per bag). McEwen generally makes 1-2 sample dispatches offsite per week.

100% of the 403 core samples collected from **#21GF-1348** were shipped to a branch lab of *Activation Laboratories*, in Geraldton, Ontario. They have ISO 9001 certification and ISO/IEC17025 accreditation through the SCC. Once samples were received, they were logged against chain-of-custody sheets provided by McEwen Mining and then dried. Once dried, the samples were prepped following:

- Crush to 80 percent passing -10 mesh
- 350 grams riffle split
- Pulverize the split to 95% passing -150 mesh

The pulverized samples are sent for fire assay; 30 grams goes into a fire assay with an AA-finish. Samples that returned greater than 10 ppm gold were sent for the 1A4 lead fire assay package with a gravimetric finish.

A table of sample locations and corresponding assay values has been appended to this report.

Assay Quality Assurance-Control

McEwen's 'QAQC' procedures were followed during the 2021 sampling-assaying programme at Gibson. Loggers arbitrarily select 2 quality control samples for insertion at random locations, into every run of 20 samples. These QA/QC samples consist of 1 certified reference material ('CRM' or 'standard' – typically purchased from OREAS), and 1 blank (typically bulk-purchased Quartz 'gravel'). Details of these insertions are documented into the sample record in *DH Logger*.

All assaying for the core sourced from **#21GF-1348** was submitted to the Geraldton branch of Activation Labs. There, the lab's technicians also performed their own internal checks:

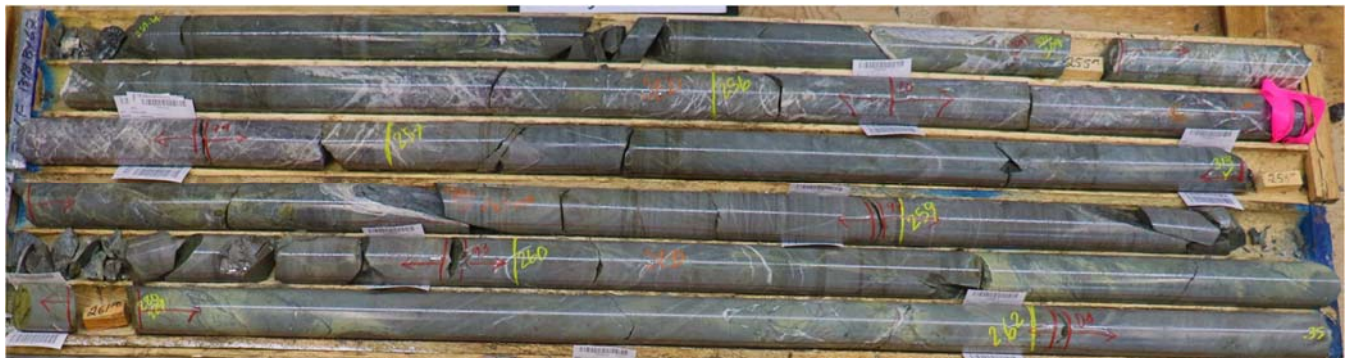
- 1 in 20 collected pulps is re-run for duplicate FA-AA analysis
- 1 in 40 rejects are pulped and then run for duplicate FA-AA analysis

Conclusion and Recommendations

McEwen’s drilling campaign in 2021 provided the proof-of-concept that epithermal-style veining was indeed present within the Gibson Syenite and adjacent clastic Sediments, 300 metres to the west of the Grey Fox cluster of gold-bearing vein sets. Numerous examples of ‘classic’ crustiform and cataclasite-breccia textures were noted by the loggers in holes such as #21GF-1348.



Photograph 3: NQ Core from 147-150.2m depth in #21GF-1348. Note the 20cm crustiform Quartz-Ankerite veining cutting the olive-green, sericite-carbonate altered fine-grained Sediments at 148.8m



Photograph 4: NQ Core from 254.1-262.3m depth in #21GF-1348. Note the swarm-cluster of thin, pale grey brecciated stringers and veinlets centered on 256m. Presence of fine visible gold (VG) is marked by the pink flagging; sawn-core sampling at this site returned an assay value of 39.4 g/t Au over 0.6 metres.

Hole #21GF-1348: SELECTED ASSAY RESULTS				
HOLE-ID	From (m)	To (m)	Core Length (m)	Au (g/t)
And	227.05	228.00	0.9	4.6
And	246.00	249.00	3.0	4.5
Including	247.00	247.74	0.7	14.4
And	255.00	256.79	1.8	14.0
Including	256.20	256.79	0.6	39.4
And	299.12	308.00	8.9	2.3
Including	299.12	303.00	3.9	3.2
And	311.02	313.07	2.1	1.5
And	331.11	333.97	2.9	3.3
Including	333.00	333.97	1.0	6.5
And	355.00	361.00	6.0	2.2
And	376.04	377.00	1.0	3.6

Criteria: Cut off grade 1g/t Au, Minimum length 3m, Maximum consecutive internal waste 3m, If grade x length > 3 the composite will be added

Table 3: Selected intercepts generated from #21GF-1348 sampling

Similar vein-features were intersected in both on-strike, and up-dip, drilling projections. Intercept plotting suggests that these belong to the 'C-1' generation (McEwen's naming convention circa 2018) - showing a 045° strike/trend and a NW dip direction.

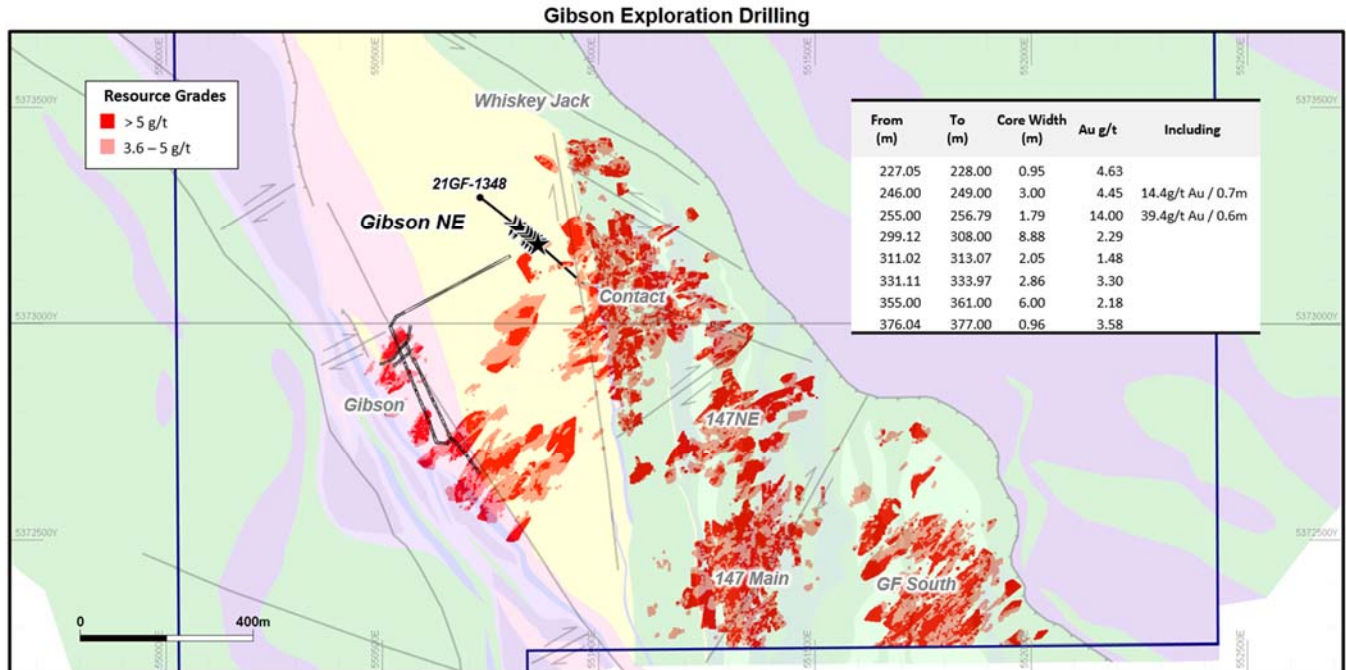


Figure 6: Geological plan map for the Gibson – Grey Fox target area. Note location of hole #21GF-1348 relative to local stratigraphy (yellow = fine clastic sediments, pink = Gibson syenite intrusive, green = Mafic Volcanic flows, purple = Ultramafic-Komatitic flows). Significant hi-lites (arbitrary selection) from the composited/weighted assay results from #21GF-1348 are shown in the embedded table. Red-shaded hi-lites indicate McEwen's modelling of zone of intersected gold mineralization

Diligent tracking of invoices from the three key field activities associated with the completion of #21GF-1348 indicate that \$C 103,451.86 qualifies for Provincial assessment credits. Documentation has been appended with the application.

Hole #21GF-1348: Expenditures by Exploration Activity		
Service Provider	Invoice #	Amount \$C
Activation Labs	A21-14081	\$1,601.00
gold assaying services	A21-14081B	\$91.00
	A21-14418	\$2,038.00
	A21-14418B	\$78.00
Vanguard Mining Corp	1824	\$36,629.96
diamond drilling operations	1829	\$60,386.10
	1837	\$737.80
Wahgoshig Resources Inc	973489811	\$525.00
core delivery services	973489830	\$1,365.00
Total Spent =		\$103,451.86

Table 4: Exploration Expenditures related to Hole #21GF-1348



2839 ON-101
Matheson, ON
Canada, POK 1N0
T: 705-273-1077
www.mcewenmining.com

Additional drilling is recommended at Gibson to further define the extents, predictability, and density of these shallow C-1 vein sets. Ideally, a 20-hole diamond drilling campaign (say 6000 metres drilling) could effectively map-out the system. These plans shall likely be re-visited in mid-2022, following the public release of an independent Preliminary Economic Analysis (PEA) for the Black Fox assets which include the key exploration sites.

References

- *NI 43-101 Technical Report: Black Fox Project* – for Apollo Gold Corporation, prepared by SRK Consulting (project # 144418) dated April 14, 2008



2839 ON-101
Matheson, ON
Canada, P0K 1N0
T: 705-273-1077
www.mcewenmining.com

Appendix A

Certificate of Author's Qualifications

Certificate of Qualifications

I, Ken Tylee, P. Geo., do hereby certify that:

1. I am a resident of Ontario residing at 685 Eyre Blvd, Timmins, P4N 4Z3.
2. I have been employed as an Exploration Manager (Ontario) for McEwen Mining since late 2017.
3. I graduated with a Bachelor of Science degree from the University of New Brunswick in 1984.
4. I am a registered Professional Geoscientist in Ontario, certificate number 0695.
5. I have practiced my profession continuously since 1984.
6. I have visited the Gibson property on numerous occasions and supervised all phases of fieldwork documented by this report.

Dated this 28th day of February 2022



KD Tylee





2839 ON-101
Matheson, ON
Canada, P0K 1N0
T: 705-273-1077
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Appendix B

Vertical Cross-Section for Hole #21GF-1348

Code	Description
AFP	Altered Feldspar Porphyry
AMV	Altered Mafic Volcanic
AUV	Altered Ultramafic
BMV	Bleached Mafic Volcanic
BX	Breccia
CAS	Casing
CGR	Green Carbonate Altered Ultramafic
CHP	Cherty Porphyry
DIA	Diabase
FI	Felsic Intrusive
FP	Feldspar Porphyry
FZ	Fault Zone
II	Intermediate Intrusive
MI	Mafic Intrusive
MV	Mafic Volcanic
PMV	Pillowed Mafic Volcanic
QBX	Quartz Breccia
QV	Quartz Vein
SED	Sediments
TUV	Talc-Chlorite Altered Ultramafic
UV	Ultramafic Volcanic

Table 5: Explanation of lithological abbreviations used for plotting, drill logs, etc.



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Appendix C

Certificates of Analysis for Hole #21GF-1348

Digitally Reported via Commercial Lab's LIMS-Web Protocols

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	73	73.9	R4020124	0.043	Actlabs	A21-14081	2021-08-31
21GF-1348	73.9	75	R4020125	0.023	Actlabs	A21-14081	2021-08-31
21GF-1348	75	76.12	R4020126	0.045	Actlabs	A21-14081	2021-08-31
21GF-1348	76.12	77	R4020127	0.024	Actlabs	A21-14081	2021-08-31
21GF-1348	118	119.04	R4020128	0.007	Actlabs	A21-14081	2021-08-31
21GF-1348	119.04	120	R4020129	0.008	Actlabs	A21-14081	2021-08-31
21GF-1348	120	121	R4020130	0.012	Actlabs	A21-14081	2021-08-31
21GF-1348	121	122.1	R4020132	0.017	Actlabs	A21-14081	2021-08-31
21GF-1348	122.1	123	R4020133	0.011	Actlabs	A21-14081	2021-08-31
21GF-1348	140.08	141	R4020134	0.021	Actlabs	A21-14081	2021-08-31
21GF-1348	141	142	R4020135	0.062	Actlabs	A21-14081	2021-08-31
21GF-1348	142	143	R4020136	0.018	Actlabs	A21-14081	2021-08-31
21GF-1348	143	144	R4020137	0.106	Actlabs	A21-14081	2021-08-31
21GF-1348	144	144.94	R4020138	0.034	Actlabs	A21-14081	2021-08-31
21GF-1348	144.94	146	R4020140	0.011	Actlabs	A21-14081	2021-08-31
21GF-1348	146	147	R4020141	0.011	Actlabs	A21-14081	2021-08-31
21GF-1348	147	148	R4020142	0.014	Actlabs	A21-14081	2021-08-31
21GF-1348	148	149.06	R4020143	0.072	Actlabs	A21-14081	2021-08-31
21GF-1348	149.06	150	R4020144	0.018	Actlabs	A21-14081	2021-08-31
21GF-1348	150	151.04	R4020145	0.007	Actlabs	A21-14081	2021-08-31
21GF-1348	151.04	151.96	R4020146	0.008	Actlabs	A21-14081	2021-08-31
21GF-1348	151.96	153	R4020148	0.099	Actlabs	A21-14081	2021-08-31
21GF-1348	153	154	R4020149	0.01	Actlabs	A21-14081	2021-08-31
21GF-1348	154	155.02	R4020150	0.009	Actlabs	A21-14081	2021-08-31
21GF-1348	159	160.08	R4020151	0.012	Actlabs	A21-14081	2021-08-31
21GF-1348	160.08	161	R4020152	0.043	Actlabs	A21-14081	2021-08-31
21GF-1348	161	162	R4020153	0.011	Actlabs	A21-14081	2021-08-31
21GF-1348	191.13	192	R4020154	0.342	Actlabs	A21-14081	2021-08-31
21GF-1348	192	193	R4020156	0.131	Actlabs	A21-14081	2021-08-31
21GF-1348	193	194.05	R4020157	0.012	Actlabs	A21-14081	2021-08-31
21GF-1348	194.05	195	R4020158	0.015	Actlabs	A21-14081	2021-08-31
21GF-1348	195	196	R4020159	0.011	Actlabs	A21-14081	2021-08-31
21GF-1348	196	197.05	R4020160	0.012	Actlabs	A21-14081	2021-08-31
21GF-1348	197.05	198	R4020161	0.013	Actlabs	A21-14081	2021-08-31
21GF-1348	198	199.13	R4020162	0.125	Actlabs	A21-14081	2021-08-31
21GF-1348	199.13	199.94	R4020164	2.01	Actlabs	A21-14081	2021-08-31
21GF-1348	199.94	201	R4020165	0.063	Actlabs	A21-14081	2021-08-31
21GF-1348	201	202.05	R4020166	0.07	Actlabs	A21-14081	2021-08-31
21GF-1348	202.05	203	R4020167	1.12	Actlabs	A21-14081	2021-08-31
21GF-1348	203	204	R4020168	0.062	Actlabs	A21-14081	2021-08-31

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	204	205.04	R4020169	0.321	Actlabs	A21-14081	2021-08-31
21GF-1348	205.04	206	R4020170	0.03	Actlabs	A21-14081	2021-08-31
21GF-1348	206	207	R4020172	0.029	Actlabs	A21-14081	2021-08-31
21GF-1348	207	208	R4020173	0.087	Actlabs	A21-14081	2021-08-31
21GF-1348	208	209.09	R4020174	0.827	Actlabs	A21-14081	2021-08-31
21GF-1348	209.09	210	R4020175	0.987	Actlabs	A21-14081	2021-08-31
21GF-1348	210	210.95	R4020176	0.111	Actlabs	A21-14081	2021-08-31
21GF-1348	210.95	212.03	R4020177	0.119	Actlabs	A21-14081	2021-08-31
21GF-1348	212.03	213	R4020178	0.008	Actlabs	A21-14081	2021-08-31
21GF-1348	213	214.24	R4020180	0.013	Actlabs	A21-14081	2021-08-31
21GF-1348	214.24	216	R4020181	0.013	Actlabs	A21-14081	2021-08-31
21GF-1348	216	217.05	R4020182	0.165	Actlabs	A21-14081	2021-08-31
21GF-1348	217.05	218	R4020183	0.01	Actlabs	A21-14081	2021-08-31
21GF-1348	218	219	R4020184	0.052	Actlabs	A21-14081	2021-08-31
21GF-1348	219	220.05	R4020185	0.02	Actlabs	A21-14081	2021-08-31
21GF-1348	220.05	221	R4020186	0.009	Actlabs	A21-14081	2021-08-31
21GF-1348	221	222	R4020188	0.012	Actlabs	A21-14081	2021-08-31
21GF-1348	222	223.02	R4020189	0.369	Actlabs	A21-14081	2021-08-31
21GF-1348	223.02	223.96	R4020190	0.63	Actlabs	A21-14081	2021-08-31
21GF-1348	223.96	225	R4020191	0.164	Actlabs	A21-14081	2021-08-31
21GF-1348	225	226.01	R4020192	0.012	Actlabs	A21-14081	2021-08-31
21GF-1348	226.01	227.05	R4020193	0.023	Actlabs	A21-14081	2021-08-31
21GF-1348	227.05	228	R4020194	4.63	Actlabs	A21-15543	2021-09-17
21GF-1348	228	229.02	R4020196	0.981	Actlabs	A21-15543	2021-09-17
21GF-1348	229.02	229.93	R4020197	0.012	Actlabs	A21-15543	2021-09-17
21GF-1348	229.93	231	R4020198	0.037	Actlabs	A21-15543	2021-09-17
21GF-1348	231	232	R4020199	0.201	Actlabs	A21-15543	2021-09-17
21GF-1348	232	232.81	R4020200	1.6	Actlabs	A21-15543	2021-09-17
21GF-1348	232.81	234	R4020201	0.028	Actlabs	A21-15543	2021-09-17
21GF-1348	234	235	R4020202	0.115	Actlabs	A21-15543	2021-09-17
21GF-1348	235	236.09	R4020204	0.027	Actlabs	A21-15543	2021-09-17
21GF-1348	236.09	237	R4020205	0.803	Actlabs	A21-15543	2021-09-17
21GF-1348	237	238.02	R4020206	0.019	Actlabs	A21-15543	2021-09-17
21GF-1348	238.02	238.95	R4020207	0.339	Actlabs	A21-15543	2021-09-17
21GF-1348	238.95	240	R4020208	0.034	Actlabs	A21-15543	2021-09-17
21GF-1348	240	241.08	R4020209	0.122	Actlabs	A21-15543	2021-09-17
21GF-1348	241.08	242	R4020210	0.441	Actlabs	A21-15543	2021-09-17
21GF-1348	242	243	R4020212	0.077	Actlabs	A21-15543	2021-09-17
21GF-1348	243	244.05	R4020213	0.068	Actlabs	A21-15543	2021-09-17
21GF-1348	244.05	244.93	R4020214	0.06	Actlabs	A21-15543	2021-09-17
21GF-1348	244.93	246	R4020215	0.276	Actlabs	A21-15543	2021-09-17

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	247	247.74	R4020217	14.4	Actlabs	A21-15543	2021-09-17
21GF-1348	247.74	249	R4020219	1.27	Actlabs	A21-15543	2021-09-17
21GF-1348	249	250.08	R4020220	0.454	Actlabs	A21-15543	2021-09-17
21GF-1348	250.08	251.09	R4020221	0.146	Actlabs	A21-15543	2021-09-17
21GF-1348	251.09	252	R4020222	0.155	Actlabs	A21-15543	2021-09-17
21GF-1348	252	253.09	R4020223	0.09	Actlabs	A21-15543	2021-09-17
21GF-1348	255	256.2	R4020224	1.51	Actlabs	A21-15543	2021-09-17
21GF-1348	256.2	256.79	R4020225	39.4	Actlabs	A21-15543	2021-09-17
21GF-1348	256.79	258	R4020228	0.228	Actlabs	A21-15543	2021-09-17
21GF-1348	258	258.97	R4020229	0.094	Actlabs	A21-15543	2021-09-17
21GF-1348	258.97	259.93	R4020230	0.065	Actlabs	A21-15543	2021-09-17
21GF-1348	259.93	261	R4020231	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	261	262.04	R4020232	0.075	Actlabs	A21-15543	2021-09-17
21GF-1348	262.04	262.94	R4020233	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	262.94	264	R4020234	0.017	Actlabs	A21-15543	2021-09-17
21GF-1348	264	265.09	R4020236	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	265.09	265.98	R4020237	0.021	Actlabs	A21-15543	2021-09-17
21GF-1348	265.98	267	R4020238	0.319	Actlabs	A21-15543	2021-09-17
21GF-1348	267	268	R4020239	0.116	Actlabs	A21-15543	2021-09-17
21GF-1348	268	269	R4020240	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	269	270	R4020241	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	270	270.97	R4020242	0.037	Actlabs	A21-15543	2021-09-17
21GF-1348	270.97	272.26	R4020244	0.014	Actlabs	A21-15543	2021-09-17
21GF-1348	272.26	273	R4020245	0.006	Actlabs	A21-15543	2021-09-17
21GF-1348	273	274.08	R4020246	0.274	Actlabs	A21-15543	2021-09-17
21GF-1348	274.08	274.92	R4020247	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	274.92	276	R4020248	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	276	276.92	R4020249	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	276.92	278	R4020250	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	278	279	R4020252	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	279	280	R4020253	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	280	281.06	R4020254	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	281.06	282	R4020255	0.078	Actlabs	A21-15543	2021-09-17
21GF-1348	282	283	R4020256	0.018	Actlabs	A21-15543	2021-09-17
21GF-1348	283	283.95	R4020257	0.014	Actlabs	A21-15543	2021-09-17
21GF-1348	283.95	285	R4020258	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	285	286	R4020260	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	286	286.96	R4020261	0.014	Actlabs	A21-15543	2021-09-17
21GF-1348	286.96	288	R4020262	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	288	288.88	R4020263	0.034	Actlabs	A21-15543	2021-09-17
21GF-1348	288.88	290	R4020264	0.018	Actlabs	A21-15543	2021-09-17

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	291	292.1	R4020266	0.013	Actlabs	A21-15543	2021-09-17
21GF-1348	292.1	293	R4020268	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	293	294	R4020269	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	294	295.07	R4020270	0.013	Actlabs	A21-15543	2021-09-17
21GF-1348	295.07	295.99	R4020271	0.018	Actlabs	A21-15543	2021-09-17
21GF-1348	295.99	297	R4020272	0.025	Actlabs	A21-15543	2021-09-17
21GF-1348	297	298	R4020273	0.019	Actlabs	A21-15543	2021-09-17
21GF-1348	298	299.12	R4020274	0.276	Actlabs	A21-15543	2021-09-17
21GF-1348	299.12	300	R4020276	6.36	Actlabs	A21-15543	2021-09-17
21GF-1348	300	301	R4020277	0.092	Actlabs	A21-15543	2021-09-17
21GF-1348	301	301.88	R4020278	2.46	Actlabs	A21-15543	2021-09-17
21GF-1348	301.88	303	R4020279	4.02	Actlabs	A21-15543	2021-09-17
21GF-1348	303	304.09	R4020280	1.46	Actlabs	A21-15543	2021-09-17
21GF-1348	304.09	305	R4020281	2.24	Actlabs	A21-15543	2021-09-17
21GF-1348	305	306	R4020282	1.62	Actlabs	A21-15543	2021-09-17
21GF-1348	306	306.97	R4020284	0.578	Actlabs	A21-15543	2021-09-17
21GF-1348	306.97	308	R4020285	2.07	Actlabs	A21-15543	2021-09-17
21GF-1348	308	309	R4020286	0.41	Actlabs	A21-15543	2021-09-17
21GF-1348	309	309.91	R4020287	0.439	Actlabs	A21-15543	2021-09-17
21GF-1348	309.91	311.02	R4020288	0.022	Actlabs	A21-15543	2021-09-17
21GF-1348	311.02	312	R4020289	1.55	Actlabs	A21-15543	2021-09-17
21GF-1348	312	313.07	R4020290	1.41	Actlabs	A21-15543	2021-09-17
21GF-1348	313.07	314.06	R4020292	0.909	Actlabs	A21-15543	2021-09-17
21GF-1348	314.06	315	R4020293	0.439	Actlabs	A21-15543	2021-09-17
21GF-1348	315	316	R4020294	0.016	Actlabs	A21-15543	2021-09-17
21GF-1348	316	317.03	R4020295	0.06	Actlabs	A21-15543	2021-09-17
21GF-1348	317.03	318	R4020296	0.304	Actlabs	A21-15543	2021-09-17
21GF-1348	318	319.1	R4020297	0.044	Actlabs	A21-15543	2021-09-17
21GF-1348	319.1	319.92	R4020298	0.07	Actlabs	A21-15543	2021-09-17
21GF-1348	319.92	321	R4020300	0.079	Actlabs	A21-15543	2021-09-17
21GF-1348	321	321.95	R4020301	0.58	Actlabs	A21-15543	2021-09-17
21GF-1348	329.03	330	R4020302	0.076	Actlabs	A21-15543	2021-09-17
21GF-1348	330	331.11	R4020303	0.946	Actlabs	A21-15543	2021-09-17
21GF-1348	331.11	332	R4020304	1.29	Actlabs	A21-15543	2021-09-17
21GF-1348	332	333	R4020305	1.99	Actlabs	A21-15543	2021-09-17
21GF-1348	333	333.97	R4020306	6.49	Actlabs	A21-15543	2021-09-17
21GF-1348	333.97	335	R4020308	0.471	Actlabs	A21-15543	2021-09-17
21GF-1348	335	336	R4020309	0.413	Actlabs	A21-15543	2021-09-17
21GF-1348	336	337.03	R4020310	0.555	Actlabs	A21-15543	2021-09-17
21GF-1348	337.03	338.04	R4020311	0.77	Actlabs	A21-15543	2021-09-17
21GF-1348	338.04	339	R4020312	1.51	Actlabs	A21-15543	2021-09-17

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	355	356	R4020314	3.91	Actlabs	A21-15543	2021-09-17
21GF-1348	356	357	R4020316	1.76	Actlabs	A21-15543	2021-09-17
21GF-1348	357	358	R4020317	0.634	Actlabs	A21-15543	2021-09-17
21GF-1348	358	358.93	R4020318	2.67	Actlabs	A21-15543	2021-09-17
21GF-1348	358.93	360	R4020319	0.97	Actlabs	A21-15543	2021-09-17
21GF-1348	360	361	R4020320	3.25	Actlabs	A21-15543	2021-09-17
21GF-1348	361	361.99	R4020321	0.768	Actlabs	A21-15543	2021-09-17
21GF-1348	361.99	363	R4020322	0.287	Actlabs	A21-15543	2021-09-17
21GF-1348	363	363.92	R4020324	0.071	Actlabs	A21-15543	2021-09-17
21GF-1348	363.92	365.07	R4020325	0.336	Actlabs	A21-15543	2021-09-17
21GF-1348	365.07	366	R4020326	0.804	Actlabs	A21-15543	2021-09-17
21GF-1348	366	367.09	R4020327	0.11	Actlabs	A21-15543	2021-09-17
21GF-1348	367.09	368.04	R4020328	0.042	Actlabs	A21-15543	2021-09-17
21GF-1348	368.04	369	R4020329	0.17	Actlabs	A21-15543	2021-09-17
21GF-1348	369	370	R4020330	0.116	Actlabs	A21-15543	2021-09-17
21GF-1348	370	371.08	R4020332	0.893	Actlabs	A21-15543	2021-09-17
21GF-1348	371.08	372	R4020333	0.112	Actlabs	A21-15543	2021-09-17
21GF-1348	372	373.05	R4020334	0.191	Actlabs	A21-15543	2021-09-17
21GF-1348	373.05	373.98	R4020335	0.021	Actlabs	A21-15543	2021-09-17
21GF-1348	373.98	375	R4020336	0.423	Actlabs	A21-15543	2021-09-17
21GF-1348	375	376.04	R4020337	0.225	Actlabs	A21-15543	2021-09-17
21GF-1348	376.04	377	R4020338	3.58	Actlabs	A21-15543	2021-09-17
21GF-1348	377	378	R4020340	0.433	Actlabs	A21-15543	2021-09-17
21GF-1348	378	379	R4020341	0.03	Actlabs	A21-15543	2021-09-17
21GF-1348	379	380	R4020342	0.212	Actlabs	A21-15543	2021-09-17
21GF-1348	380	381	R4020343	0.594	Actlabs	A21-15543	2021-09-17
21GF-1348	381	382.22	R4020344	0.226	Actlabs	A21-15543	2021-09-17
21GF-1348	390.8	392	R4020345	0.113	Actlabs	A21-15543	2021-09-17
21GF-1348	392	393	R4020347	0.179	Actlabs	A21-15543	2021-09-17
21GF-1348	393	394	R4020348	0.018	Actlabs	A21-15543	2021-09-17
21GF-1348	394	395	R4020349	0.134	Actlabs	A21-15543	2021-09-17
21GF-1348	395	396	R4020350	0.782	Actlabs	A21-15543	2021-09-17
21GF-1348	396	397	R4020351	0.034	Actlabs	A21-15543	2021-09-17
21GF-1348	397	398	R4020352	0.045	Actlabs	A21-15543	2021-09-17
21GF-1348	398	399	R4020353	0.021	Actlabs	A21-15543	2021-09-17
21GF-1348	399	400	R4020355	0.069	Actlabs	A21-15543	2021-09-17
21GF-1348	400	401	R4020356	0.053	Actlabs	A21-15543	2021-09-17
21GF-1348	401	402	R4020357	0.349	Actlabs	A21-15543	2021-09-17
21GF-1348	402	403	R4020358	0.016	Actlabs	A21-15543	2021-09-17
21GF-1348	403	404	R4020359	0.084	Actlabs	A21-15543	2021-09-17
21GF-1348	404	405	R4020360	0.091	Actlabs	A21-15543	2021-09-17

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	406	407	R4020362	0.135	Actlabs	A21-15543	2021-09-17
21GF-1348	407	408	R4020363	0.066	Actlabs	A21-15543	2021-09-17
21GF-1348	408	409	R4020365	0.398	Actlabs	A21-15543	2021-09-17
21GF-1348	409	410	R4020366	0.216	Actlabs	A21-15543	2021-09-17
21GF-1348	410	411	R4020367	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	411	412	R4020368	0.186	Actlabs	A21-15543	2021-09-17
21GF-1348	412	413	R4020369	0.027	Actlabs	A21-15543	2021-09-17
21GF-1348	413	414	R4020370	0.035	Actlabs	A21-15543	2021-09-17
21GF-1348	414	415	R4020371	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	415	416	R4020373	0.02	Actlabs	A21-15543	2021-09-17
21GF-1348	416	417	R4020374	0.043	Actlabs	A21-15543	2021-09-17
21GF-1348	417	418	R4020375	0.019	Actlabs	A21-15543	2021-09-17
21GF-1348	418	419	R4020376	0.185	Actlabs	A21-15543	2021-09-17
21GF-1348	419	420	R4020377	0.048	Actlabs	A21-15543	2021-09-17
21GF-1348	420	421	R4020378	0.071	Actlabs	A21-15543	2021-09-17
21GF-1348	421	422	R4020379	0.015	Actlabs	A21-15543	2021-09-17
21GF-1348	422	423	R4020380	0.02	Actlabs	A21-15543	2021-09-17
21GF-1348	423	424	R4020381	1.68	Actlabs	A21-15543	2021-09-17
21GF-1348	424	425	R4020382	0.021	Actlabs	A21-15543	2021-09-17
21GF-1348	425	426	R4020383	0.049	Actlabs	A21-15543	2021-09-17
21GF-1348	426	427	R4020384	0.012	Actlabs	A21-15543	2021-09-17
21GF-1348	427	428	R4020385	0.017	Actlabs	A21-15543	2021-09-17
21GF-1348	428	429	R4020387	0.015	Actlabs	A21-15543	2021-09-17
21GF-1348	429	430	R4020388	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	430	431	R4020389	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	431	432	R4020390	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	432	433	R4020391	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	433	434	R4020392	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	434	435	R4020393	0.136	Actlabs	A21-15543	2021-09-17
21GF-1348	435	436	R4020395	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	436	437	R4020396	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	437	438	R4020397	0.006	Actlabs	A21-15543	2021-09-17
21GF-1348	438	439	R4020398	0.041	Actlabs	A21-15543	2021-09-17
21GF-1348	439	440	R4020399	0.036	Actlabs	A21-15543	2021-09-17
21GF-1348	440	441	R4020400	0.01	Actlabs	A21-15543	2021-09-17
21GF-1348	441	442	R4020401	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	442	443	R4020402	0.111	Actlabs	A21-15543	2021-09-17
21GF-1348	443	444	R4020403	0.017	Actlabs	A21-15543	2021-09-17
21GF-1348	444	445	R4020404	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	445	446	R4020406	0.595	Actlabs	A21-15543	2021-09-17
21GF-1348	446	447	R4020407	0.935	Actlabs	A21-15543	2021-09-17

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	448	449	R4020409	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	449	450	R4020410	0.133	Actlabs	A21-15543	2021-09-17
21GF-1348	450	451	R4020411	0.028	Actlabs	A21-15543	2021-09-17
21GF-1348	451	452	R4020412	0.013	Actlabs	A21-15543	2021-09-17
21GF-1348	452	453	R4020414	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	453	454	R4020415	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	454	455	R4020416	0.0025	Actlabs	A21-15543	2021-09-17
21GF-1348	455	456	R4020417	0.006	Actlabs	A21-15543	2021-09-17
21GF-1348	456	457	R4020418	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	457	458	R4020419	0.018	Actlabs	A21-15543	2021-09-17
21GF-1348	458	459	R4020420	0.068	Actlabs	A21-15543	2021-09-17
21GF-1348	459	460	R4020463	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	460	461	R4020464	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	461	462	R4020465	0.006	Actlabs	A21-15543	2021-09-17
21GF-1348	462	463	R4020466	0.031	Actlabs	A21-15543	2021-09-17
21GF-1348	463	464	R4020468	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	464	465	R4020469	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	465	466	R4020470	0.044	Actlabs	A21-15543	2021-09-17
21GF-1348	466	467	R4020471	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	467	468	R4020472	0.01	Actlabs	A21-15543	2021-09-17
21GF-1348	468	469	R4020473	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	469	470	R4020474	0.006	Actlabs	A21-15543	2021-09-17
21GF-1348	470	471	R4020475	0.029	Actlabs	A21-15543	2021-09-17
21GF-1348	471	472	R4020476	0.024	Actlabs	A21-15543	2021-09-17
21GF-1348	472	473	R4020478	0.027	Actlabs	A21-15543	2021-09-17
21GF-1348	473	474	R4020479	0.033	Actlabs	A21-15543	2021-09-17
21GF-1348	474	475	R4020480	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	475	476	R4020481	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	476	477	R4020482	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	477	478	R4020484	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	478	479	R4020485	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	479	480	R4020486	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	480	481	R4020487	0.013	Actlabs	A21-15543	2021-09-17
21GF-1348	481	482	R4020488	0.012	Actlabs	A21-15543	2021-09-17
21GF-1348	482	483	R4020489	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	483	484	R4020490	0.013	Actlabs	A21-15543	2021-09-17
21GF-1348	484	484.75	R4020491	0.035	Actlabs	A21-15543	2021-09-17
21GF-1348	484.75	486	R4020492	0.052	Actlabs	A21-15543	2021-09-17
21GF-1348	486	487	R4020493	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	487	488	R4020494	0.006	Actlabs	A21-15543	2021-09-17
21GF-1348	488	489	R4020496	0.007	Actlabs	A21-15543	2021-09-17

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	490.25	491	R4020498	0.005	Actlabs	A21-15543	2021-09-17
21GF-1348	491	492	R4020499	0.013	Actlabs	A21-15543	2021-09-17
21GF-1348	492	493	R4020500	0.013	Actlabs	A21-15543	2021-09-17
21GF-1348	493	494	R4020651	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	494	495	R4020652	0.056	Actlabs	A21-15543	2021-09-17
21GF-1348	495	496	R4020653	0.048	Actlabs	A21-15543	2021-09-17
21GF-1348	496	497	R4020654	0.068	Actlabs	A21-15543	2021-09-17
21GF-1348	497	498	R4020656	0.139	Actlabs	A21-15543	2021-09-17
21GF-1348	498	499	R4020657	0.012	Actlabs	A21-15543	2021-09-17
21GF-1348	499	500	R4020658	0.189	Actlabs	A21-15543	2021-09-17
21GF-1348	500	501	R4020659	0.408	Actlabs	A21-15543	2021-09-17
21GF-1348	501	502	R4020660	0.04	Actlabs	A21-15543	2021-09-17
21GF-1348	502	503	R4020661	0.012	Actlabs	A21-15543	2021-09-17
21GF-1348	503	504	R4020662	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	504	505	R4020664	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	505	506	R4020665	0.015	Actlabs	A21-15543	2021-09-17
21GF-1348	506	507	R4020666	0.017	Actlabs	A21-15543	2021-09-17
21GF-1348	507	508	R4020667	0.016	Actlabs	A21-15543	2021-09-17
21GF-1348	508	509	R4020668	0.018	Actlabs	A21-15543	2021-09-17
21GF-1348	509	510.15	R4020669	0.276	Actlabs	A21-15543	2021-09-17
21GF-1348	510.15	511	R4020670	0.057	Actlabs	A21-15543	2021-09-17
21GF-1348	511	512	R4020671	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	512	513	R4020672	0.007	Actlabs	A21-15543	2021-09-17
21GF-1348	513	514	R4020673	0.018	Actlabs	A21-15543	2021-09-17
21GF-1348	514	515	R4020674	0.04	Actlabs	A21-15543	2021-09-17
21GF-1348	515	516	R4020675	0.025	Actlabs	A21-15543	2021-09-17
21GF-1348	516	517	R4020676	0.009	Actlabs	A21-15543	2021-09-17
21GF-1348	517	517.6	R4020677	0.011	Actlabs	A21-15543	2021-09-17
21GF-1348	517.6	519	R4020678	0.008	Actlabs	A21-15543	2021-09-17
21GF-1348	519	520	R4020679	0.015	Actlabs	A21-15543	2021-09-17
21GF-1348	520	521	R4020680	0.006	Actlabs	A21-15543	2021-09-17
21GF-1348	521	522	R4020681	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	522	523	R4020682	0.012	Actlabs	A21-14418	2021-09-13
21GF-1348	594	595	R4020683	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	595	596	R4020684	0.034	Actlabs	A21-14418	2021-09-13
21GF-1348	596	597	R4020685	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	597	598.1	R4020687	0.019	Actlabs	A21-14418	2021-09-13
21GF-1348	598.1	599	R4020688	0.007	Actlabs	A21-14418	2021-09-13
21GF-1348	599	600	R4020689	0.005	Actlabs	A21-14418	2021-09-13
21GF-1348	600	601	R4020690	0.0025	Actlabs	A21-14418	2021-09-13
21GF-1348	601	602	R4020691	0.009	Actlabs	A21-14418	2021-09-13

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	603	604	R4020693	0.0025	Actlabs	A21-14418	2021-09-13
21GF-1348	604	605	R4020694	0.0025	Actlabs	A21-14418	2021-09-13
21GF-1348	605	606	R4020695	0.008	Actlabs	A21-14418	2021-09-13
21GF-1348	606	607	R4020696	0.006	Actlabs	A21-14418	2021-09-13
21GF-1348	607	608	R4020698	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	608	609	R4020699	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	609	610	R4020700	0.005	Actlabs	A21-14418	2021-09-13
21GF-1348	610	611	R4020701	0.007	Actlabs	A21-14418	2021-09-13
21GF-1348	611	612	R4020702	0.005	Actlabs	A21-14418	2021-09-13
21GF-1348	612	613	R4020703	0.013	Actlabs	A21-14418	2021-09-13
21GF-1348	613	614	R4020704	0.012	Actlabs	A21-14418	2021-09-13
21GF-1348	614	615	R4020705	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	615	616	R4020706	0.026	Actlabs	A21-14418	2021-09-13
21GF-1348	616	617	R4020707	0.013	Actlabs	A21-14418	2021-09-13
21GF-1348	617	618	R4020708	0.012	Actlabs	A21-14418	2021-09-13
21GF-1348	618	619	R4020709	0.013	Actlabs	A21-14418	2021-09-13
21GF-1348	619	620	R4020711	0.009	Actlabs	A21-14418	2021-09-13
21GF-1348	620	621	R4020712	0.008	Actlabs	A21-14418	2021-09-13
21GF-1348	621	622	R4020713	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	622	623	R4020714	0.005	Actlabs	A21-14418	2021-09-13
21GF-1348	623	624	R4020715	0.008	Actlabs	A21-14418	2021-09-13
21GF-1348	624	625	R4020716	0.007	Actlabs	A21-14418	2021-09-13
21GF-1348	625	626	R4020718	0.008	Actlabs	A21-14418	2021-09-13
21GF-1348	626	627	R4020719	0.0025	Actlabs	A21-14418	2021-09-13
21GF-1348	627	628	R4020720	0.034	Actlabs	A21-14418	2021-09-13
21GF-1348	628	629	R4020721	0.042	Actlabs	A21-14418	2021-09-13
21GF-1348	629	630	R4020722	0.026	Actlabs	A21-14418	2021-09-13
21GF-1348	630	631	R4020723	0.005	Actlabs	A21-14418	2021-09-13
21GF-1348	631	632	R4020725	0.0025	Actlabs	A21-14418	2021-09-13
21GF-1348	632	633	R4020726	0.005	Actlabs	A21-14418	2021-09-13
21GF-1348	633	634	R4020727	0.006	Actlabs	A21-14418	2021-09-13
21GF-1348	634	635	R4020728	0.006	Actlabs	A21-14418	2021-09-13
21GF-1348	635	636	R4020729	0.015	Actlabs	A21-14418	2021-09-13
21GF-1348	636	637	R4020730	0.007	Actlabs	A21-14418	2021-09-13
21GF-1348	637	638	R4020731	0.007	Actlabs	A21-14418	2021-09-13
21GF-1348	638	639	R4020732	0.011	Actlabs	A21-14418	2021-09-13
21GF-1348	639	640	R4020733	0.009	Actlabs	A21-14418	2021-09-13
21GF-1348	640	641	R4020735	0.006	Actlabs	A21-14418	2021-09-13
21GF-1348	641	642	R4020736	0.013	Actlabs	A21-14418	2021-09-13
21GF-1348	642	643	R4020737	0.014	Actlabs	A21-14418	2021-09-13
21GF-1348	643	644	R4020738	0.009	Actlabs	A21-14418	2021-09-13

Hole_Number	From	To	SampleNo	Au_ppm_Final	Laboratory	Lab_reference	Analysis_date
21GF-1348	645	646	R4020740	0.006	Actlabs	A21-14418	2021-09-13
21GF-1348	646	647	R4020741	0.005	Actlabs	A21-14418	2021-09-13
21GF-1348	647	648	R4020742	0.007	Actlabs	A21-14418	2021-09-13
21GF-1348	648	649	R4020743	0.037	Actlabs	A21-14418	2021-09-13
21GF-1348	649	650	R4020745	0.019	Actlabs	A21-14418	2021-09-13
21GF-1348	650	651	R4020746	0.008	Actlabs	A21-14418	2021-09-13
21GF-1348	651	652	R4020747	0.015	Actlabs	A21-14418	2021-09-13
21GF-1348	652	652.99	R4020748	0.008	Actlabs	A21-14418	2021-09-13
21GF-1348	652.99	654	R4020749	0.006	Actlabs	A21-14418	2021-09-13
21GF-1348	654	655	R4020750	0.008	Actlabs	A21-14418	2021-09-13
21GF-1348	655	656	R4020751	0.011	Actlabs	A21-14418	2021-09-13
21GF-1348	656	657	R4020753	0.019	Actlabs	A21-14418	2021-09-13
21GF-1348	657	658	R4020754	0.0025	Actlabs	A21-14418	2021-09-13
21GF-1348	658	658.97	R4020755	0.0025	Actlabs	A21-14418	2021-09-13
21GF-1348	658.97	660	R4020756	0.034	Actlabs	A21-14418	2021-09-13
21GF-1348	660	661	R4020757	0.018	Actlabs	A21-14418	2021-09-13
21GF-1348	661	662	R4020758	0.009	Actlabs	A21-14418	2021-09-13
21GF-1348	662	663	R4020759	0.018	Actlabs	A21-14418	2021-09-13
21GF-1348	663	664	R4020760	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	664	665	R4020761	0.011	Actlabs	A21-14418	2021-09-13
21GF-1348	665	666	R4020762	0.015	Actlabs	A21-14418	2021-09-13
21GF-1348	666	667	R4020764	0.008	Actlabs	A21-14418	2021-09-13
21GF-1348	667	668	R4020765	0.005	Actlabs	A21-14418	2021-09-13
21GF-1348	668	669	R4020766	0.01	Actlabs	A21-14418	2021-09-13
21GF-1348	669	670	R4020767	0.007	Actlabs	A21-14418	2021-09-13
21GF-1348	670	671	R4020768	0.007	Actlabs	A21-14418	2021-09-13
21GF-1348	671	672	R4020769	0.006	Actlabs	A21-14418	2021-09-13



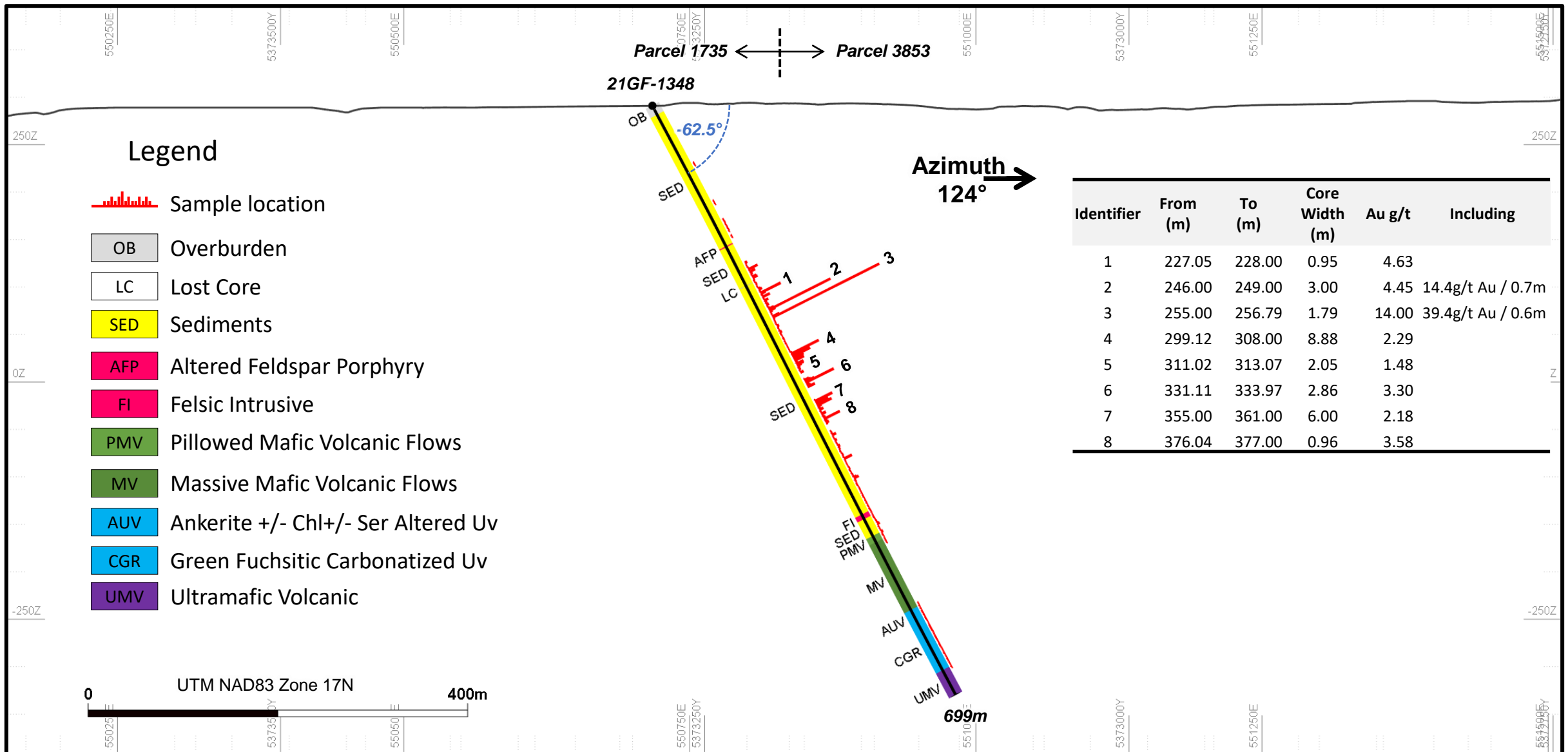
2839 ON-101
Matheson, ON
Canada, P0K 1N0
T: 705-273-1077
www.mcewenmining.com

Appendix D


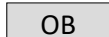
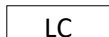








Diamond Drill Log - Hole #21GF-1348

Code	Description
AFP	Altered Feldspar Porphyry
AMV	Altered Mafic Volcanic
AUV	Altered Ultramafic
BMV	Bleached Mafic Volcanic
BX	Breccia
CAS	Casing
CGR	Green Carbonate Altered Ultramafic
CHP	Cherty Porphyry
DIA	Diabase
FI	Felsic Intrusive
FP	Feldspar Porphyry
FZ	Fault Zone
II	Intermediate Intrusive
MI	Mafic Intrusive
MV	Mafic Volcanic
PMV	Pillowed Mafic Volcanic
QBX	Quartz Breccia
QV	Quartz Vein
SED	Sediments
TUV	Talc-Chlorite Altered Ultramafic
UV	Ultramafic Volcanic

Table 6: Explanation of lithological abbreviations used for plotting, drill logs, etc.

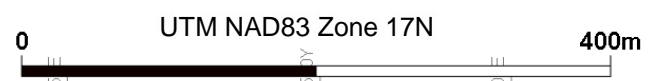


Legend

-  Sample location
-  OB Overburden
-  LC Lost Core
-  SED Sediments
-  AFP Altered Feldspar Porphyry
-  FI Felsic Intrusive
-  PMV Pillowed Mafic Volcanic Flows
-  MV Massive Mafic Volcanic Flows
-  AUV Ankerite +/- Chl +/- Ser Altered Uv
-  CGR Green Fuchsitic Carbonatized Uv
-  UMV Ultramafic Volcanic

Azimuth \rightarrow
124°

Identifier	From (m)	To (m)	Core Width (m)	Au g/t	Including
1	227.05	228.00	0.95	4.63	
2	246.00	249.00	3.00	4.45	14.4g/t Au / 0.7m
3	255.00	256.79	1.79	14.00	39.4g/t Au / 0.6m
4	299.12	308.00	8.88	2.29	
5	311.02	313.07	2.05	1.48	
6	331.11	333.97	2.86	3.30	
7	355.00	361.00	6.00	2.18	
8	376.04	377.00	0.96	3.58	



Parcel 1735 ← → Parcel 3853
21GF-1348

OB
-62.5°

SED
AFP
SED
LC
1 2 3
4 5 6
7 8
SED

FI
SED
PMV
MV
AUV
CGR
UMV
699m