



LIMITED
ABN 48 106 732 487

ASX Announcement

28 March 2018

Settlement of Red October Gold Project

Highlights

- *Matsa has finalised and settled the acquisition of the Red October Gold Mine and associated infrastructure with Saracen*
- *The current resource at the Red October Gold Mine is 99,000 oz. of Au at 6.9 g/t including 85,000 Oz. of Au at 13.5 g/t*
- *Settlement included 44km² of granted mining tenements, a modern 68 person camp with full accommodation and administration facilities, workshops and all supporting mine infrastructure, including pumps and ventilation systems and haul roads*
- *Settlement of an additional 20km² representing the balance of the proposed acquisition is expected to occur in due course*
- *Mine planning and resource definition work is already underway to immediately assess the potential to recommence mining at Red October*
- *Exploration programmes being developed to identify prospective areas that can add to the current known resource including the Treasure Island and Causeway prospects*

CORPORATE SUMMARY

Executive Chairman

Paul Poli

Director

Frank Sibbel

Director & Company Secretary

Andrew Chapman

Shares on Issue

176.93 million

Unlisted Options

13.70 million @ \$0.25 - \$0.30

Top 20 shareholders

Hold 51.68%

Share Price on 27th March 2018

19 cents

Market Capitalisation

\$33.62 million

Matsa Resources Limited (“Matsa” or “the Company” ASX: MAT) is pleased to advise that it has today settled the acquisition of the Red October Gold Mine and associated infrastructure with Saracen Mineral Holdings Limited (“Saracen”; ASX: SAR). On 26th September 2017 Matsa announced it had entered into an Asset Sale and Purchase Agreement (“ASPA”) with Saracen to acquire the Red October Gold Project for a combination of cash and shares to the deemed value of \$2 million (*MAT announcement to ASX 26th September 2017*).

The acquisition was subject to a number of conditions which have now been met and Matsa has issued 4,545,000 fully paid ordinary shares at a deemed price of \$0.22 to Saracen as part consideration of the acquisition. A deferred and final consideration amount of \$400,000 will be due and payable to Saracen on 25th June 2018.

Three tenements (Capella Tenements) that were part of the original ASPA have not been able to be transferred at this time and as a result Matsa will withhold \$450,000 until this matter can be resolved. These Capella tenements are at the southern end of the Red October project area and will have no impact on Matsa’s operations.

Matsa’s Executive Chairman Mr Paul Poli said *“The acquisition of the Red October Gold Mine has now been completed and we are truly excited about our prospects at Red October. We welcome Saracen to our share register and thank them for their professionalism during our journey.”*

Mr Poli added “We have already gotten on with the job of assessing the potential to recommence mining at Red October and expect to give shareholders an update on how near to recommencement of production we could be soon.”

Forward Work Strategy

The Red October mine is under care and maintenance but the mine remains in excellent, dry condition. A number of areas are available for immediate mining and the interpretation and planning for recommencement of mining has already begun. Exploration for additional ounces, both within and near the mine as well as over the tenement package is planned in order to increase potential mine life longevity.

The potential for extensions of known lodes and discovery of new lodes is considered excellent.

The Red October Gold Project is located immediately adjacent and contiguous with Matsa’s Lake Carey Project, containing the Fortitude mining operation (Figure 1). The project areas covers 44 km² and consists of six MLs, an extensive well maintained underground mine with associated 68 person camp, offices, workshops and exploration base, wet and dry messes, underground mine equipment and a Mineral Resource Estimate of 99,000 oz of gold (refer Table 1). The camp was formerly 128 person camp, and as such remains easily upgradeable to its former capacity.

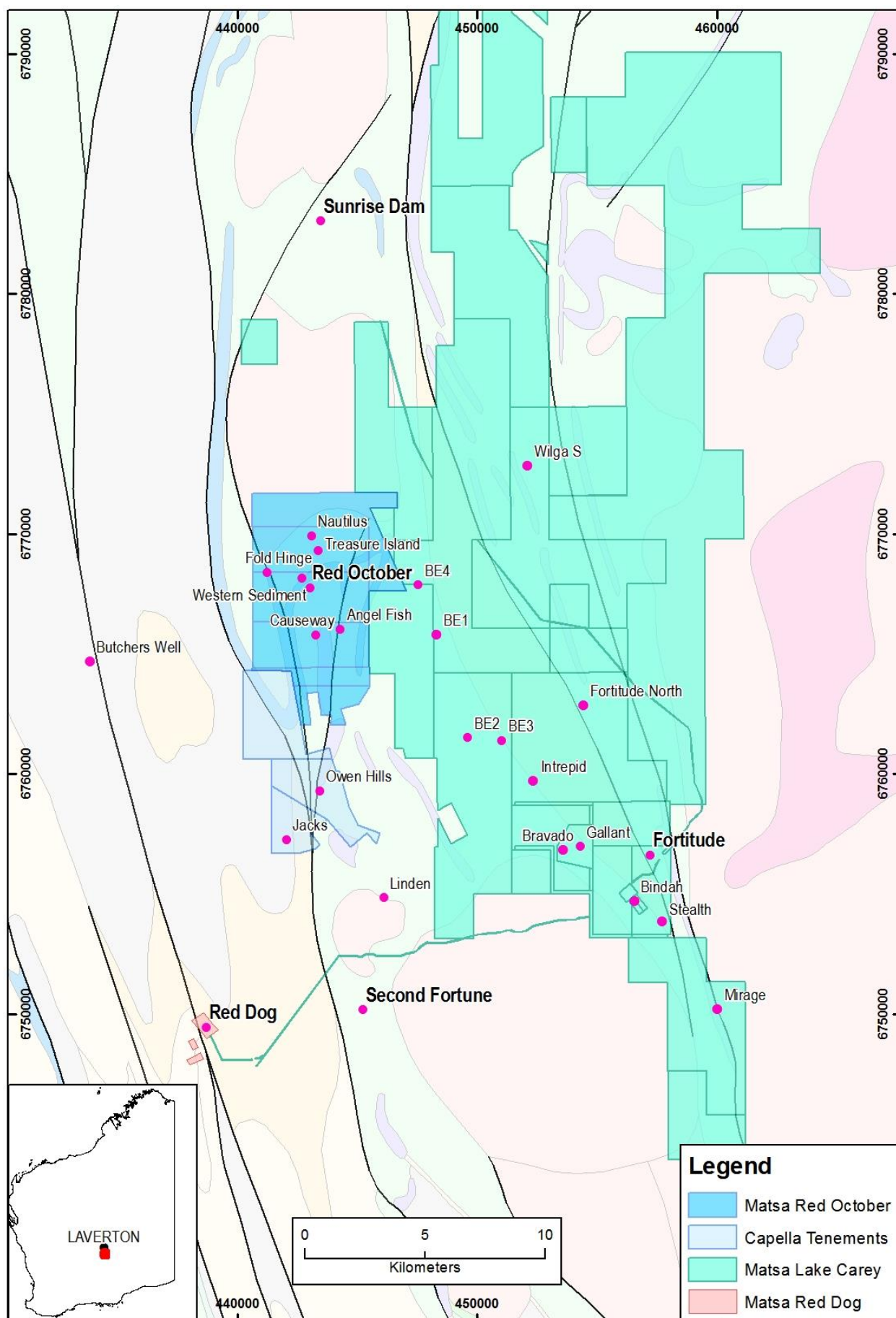


Figure 1: Red October Location Map and gold targets

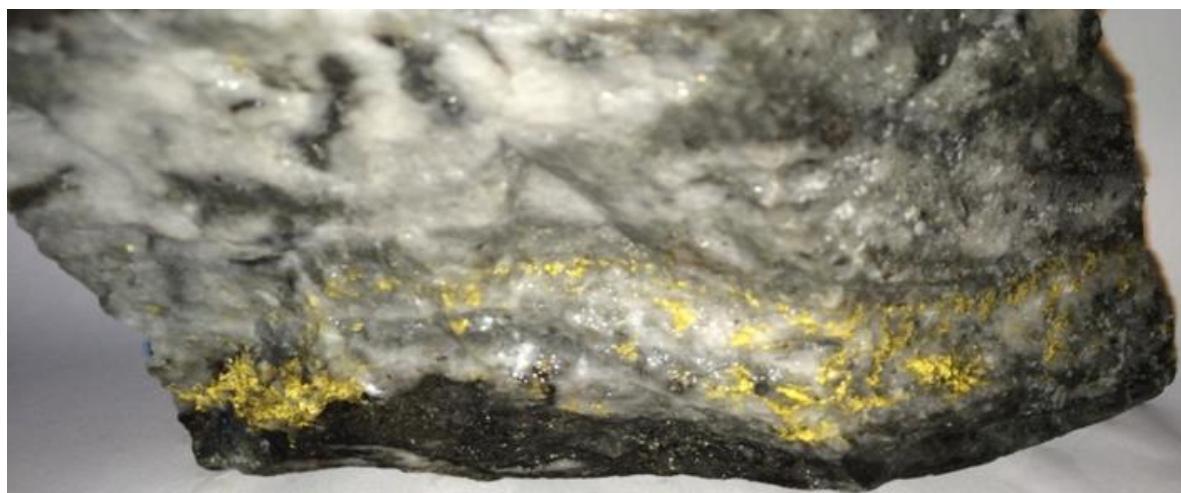


Figure 2: Gold from Marlin Lode 1220S stope – Red October Gold Project

Red October Resource

The Red October mine is a structurally controlled gold deposit located in the Laverton Greenstone Belt (LGB) which hosts >25Moz of gold and includes Sunrise Dam, Granny Smith, Wallaby, Lancefield, Chatterbox and Matsa's Fortitude Mine (Figure 1).

Currently in care and maintenance since June 2017, the Red October mine has produced a total of 1.7Mt at 6.1g/t for 342koz Au. The Open Pit operation contributed 113koz Au at 6.5g/t Au between 1999 and 2002 and the underground operation has produced 1.2Mt at 5.9g/t for 229koz Au to a depth of 550m vertical metres from 2012 to 2017. As at 30 June 2017, the Red October Mineral Resource estimate stands at 99,000 ounces of gold (Table 1).

	Indicated			Inferred			Total		
June 30 2017	tonnes	g/t	Oz Au	tonnes	g/t	Oz Au	tonnes	g/t	Oz Au
Red October OP	251,000	17	14,000				251,000	1.7	14,000
Red October UG	89,000	12.1	35,000	106,000	14.6	50,000	195,000	13.6	85,000
Total	340,000	4.5	49,000	106,000	14.7	50,000	446,000	6.9	99,000

Table 1: 30 June 2017 Red October Resource Estimate (ref ASX: SAR 02/08/2017)

The Company confirms that it is not aware of any new information or data that materially affects the information included in the above resource estimate and that all material assumptions and technical parameters underpinning the above resource estimate continue to apply and have not materially changed.

For further information please contact:

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Executive Chairman

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Competent Person

The information in the report to which this statement is attached that relates to Exploration Results and Mineral Resources related to the Red October Resource Estimate is based upon information compiled by Mr Daniel Howe, a Competent Person who is a member of the Australian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Daniel Howe is a full-time employee of Saracen Mineral Holdings Limited. Daniel Howe has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Daniel Howe consents to the inclusion in the report of matters based on his information in the form and context in which it appears.

The information in this report that relates to Exploration results and Mineral Resources is based on information compiled by Mark Csar, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mark Csar is a full time employee of Matsa Resources Limited. Mark Csar has sufficient experience which is relevant to the style of mineralisation and the type of ore deposit under consideration and the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mark Csar consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Appendix 1 - Matsa Resources Limited – Red October Gold Project

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<i>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</i> <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i> <i>Aspects of the determination of mineralisation that are Material to the Public Report.</i> <i>In cases where ‘industry standard’ work has been done this would be relatively simple (eg ‘reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay’). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</i>	- Sampling activities conducted at Red October by Saracen include reverse circulation (RC), surface and underground diamond drilling (DD) and underground face chip sampling. Historic sampling methods conducted since 1989 have included aircore (AC), rotary air blast (RAB), RC and surface and underground DD holes - Sampling for RC, DD and face chip sampling is carried out as specified within Saracen sampling and QAQC procedures as per industry standard. RC chips and NQ diamond core provide high quality representative samples for analysis. RC, RAB, AC and surface DD drilling completed by previous holders is assumed to adhere to industry standard at that time 1989- 2004. - Saracen sampling activities have been carried out to industry standard. Reverse circulation drilling is used to obtain 1 m samples, diamond core is sampled to geological intervals (0.2m to 1.2m) and cut into half core and UG faces are chip sampled to geological intervals (0.2 to 1m), with all methods producing representative samples weighing less than 3kg. Samples are selected to weigh less than 3 kg to ensure total sample inclusion at the pulverisation stage. Saracen core and chip samples are crushed, dried and pulverised to a nominal 90o/o passing 75µm to produce a 40 g sub sample for analysis by FA/AAS. Visible gold is occasionally encountered in drillcore and face samples. Historical AC, RAB, RC and diamond sampling is assumed to have been carried out to industry standard at that time. Analysis methods include fire assay, aqua regia and unspecified methods.
Drilling techniques	<i>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).</i>	The deposit was initially sampled by 495 AC holes, 73 RAB holes, 391 RC holes (assumed standard 5 %" bit size) and 159 surface diamond NQ and HQ core holes. 5 RC holes were drilled using a 143mm diameter bit with a face sampling hammer. The rig was equipped with an external auxiliary/ booster. Saracen has previously completed 6 reverse circulation drill holes, 9 surface HQ and NQ diamond drill holes, 839 underground NQ diamond drill holes and sampled 2931 underground faces. Diamond drill core has been oriented using several different methods

Criteria	JORC Code explanation	Commentary
Drill sample recovery	- Method of recording and assessing core and chip sample recoveries and results assessed. - Measures taken to maximise sample recovery and ensure representative nature of the samples. - Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	which include Ezi-Mark, ACT, and more recently Ori-Finder. Some historic surface diamond drill core appears to have been oriented by unknown methods. - RC chip recoveries are recorded in the database as a percentage based on a visual weight estimate. Underground and surface diamond core recoveries are recorded as percentages calculated from measured core versus drilled metres, and intervals are logged and recorded in the database. Diamond core recoveries average >90%. Limited historic surface sampling and surface diamond recoveries have been recorded. - During RC drilling daily rig inspections are carried out to check splitter condition, general site and address general issues. Ground condition concerns led to extensive hole conditioning meaning contamination was minimised and particular attention was paid to sample recovery. Diamond core is reconstructed into continuous runs on an angle iron cradle for orientation marking. Depths are checked against depth given on the core blocks. UG faces are sampled left to right across the face allowing a representative sample to be taken due to the vertical nature of the orebody. Historical AC, RAB, RC and diamond drilling to industry standard at that time. - There is no known relationship between sample recovery and grade for RC drilling. Diamond drilling has high recoveries due to the competent nature of the ground meaning loss of material is minimal. Any historical relationship is not known.
Logging	- Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. - Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. - The total length and percentage of the relevant intersections logged.	- Logging of all RC chips and diamond drill core is carried out. Logging records lithology, mineralogy, texture, mineralisation, weathering, alteration and veining. - Logging is both qualitative and quantitative in nature. Geotechnical and structural logging is carried out on all diamond core holes to record recovery, RQD, defect number, type, fill material, shape and roughness and alpha and beta angles. Core is photographed in both dry and wet state. All faces are photographed and mapped. Qualitative and quantitative logging of historic data varies in its completeness. Some surface diamond drill photography has been preserved. - All RC and diamond drill holes are logged in full and all faces are mapped. Historical logging is approximately 95% complete, some AC, RAB and RC pre-collar information is unavailable.
Sub-sampling techniques and sample preparation	- If core, whether cut or sawn and whether quarter, half or all core taken. - If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. - For all sample types, the nature, quality and appropriateness of the sample preparation technique.	- All diamond core is cut in half on-site using an automatic core saw. Samples are always collected from the same side. - RC drilling has been cone split and was dry sampled. UG faces are chip sampled using a hammer. AC, RAB and RC drilling has been sampled using spear, grab, riffle and unknown methods. - The sample preparation of RC chips, diamond core and UG face chips adhere to industry best practice. It is conducted by a commercial laboratory and involves oven drying, coarse crushing then total grinding using an LM5 to a grind size of 90% passing 75 microns. Best practice is assumed at the time of historic sampling.

Criteria	JORC Code explanation	Commentary
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i> <i>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</i> <i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	- All subsampling activities are carried out by commercial laboratory and are considered to be satisfactory. Sampling by previous holders is assumed to adhere to industry standard at the time. - RC field duplicate samples are carried out at a rate of 1:20 and are sampled directly from the on-board splitter on the rig. These are submitted for the same assay process as the original samples and the laboratory are unaware of such submissions. No duplicates have been taken of UG diamond core, face samples are duplicated on ore structures. Sampling by previous holders assumed to be industry standard at the time. - Sample sizes of 3kg are considered to be appropriate given the grain size (90% passing 75 microns) of size of the material of the material sampled.
Quality of assay data and laboratory tests	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i> <i>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i> <i>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</i>	- A 40 gram fire assay with MS finish is used to determine the gold concentration for RC chip, UG diamond core and face chip samples. This method is considered one of the most suitable for determining gold concentrations in rock and is a total digest method. Historic sampling includes fire assay, aqua regia and unknown methods. - No geophysical tools were utilised for reporting gold mineralisation. - Certified reference material (standards and blanks) with a wide range of values are inserted into every RC, diamond drill hole (1 in 30) and UG face jobs to assess laboratory accuracy and precision and possible contamination. These are not identifiable to the laboratory. Blanks are also included at a rate of 1 in 30 for diamond drill core and one per lab dispatch for face samples. Feldspar flush samples are requested after each sample with visible gold, or estimated high grade. QAQC data returned are checked against pass/fail limits with the SQL database and are passed or failed on import. A report is generated and reviewed by the geologist as necessary upon failure to determine further action. QAQC data is reported monthly and demonstrates sufficient levels of accuracy and precision. Sample preparation checks for fineness are carried out to ensure a grind size of 90o/o passing 75 microns. The laboratory performs a number of internal processes including standards, blanks, repeats and checks. Industry best practice is assumed for previous holders. Historic QAQC data is stored in the database but not reviewed.

Criteria	JORC Code explanation	Commentary
Verification of sampling and assaying	<i>The verification of significant intersections by either independent or alternative company personnel.</i> <i>The use of twinned holes.</i> <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i> <i>Discuss any adjustment to assay data.</i>	- Significant intercepts are verified by the Geology Manager and corporate personnel. - No specific twinned holes have been drilled at Red October but underground diamond drilling has confirmed the width and grade of previous exploration drilling. - Primary data is collated in a set of excel templates utilising lookup codes. This data is forwarded to the Database Administrator for entry into a secure acQuire database with inbuilt validation functions. Chips from RC drill holes are stored in chip trays for future reference. Remaining half core is stored in core trays and archived on site. Hard copies of face mapping, backs mapping and sampling records are kept on site. Digital scans are also kept on the corporate server. Data from previous owners was taken from a database compilation and was validated as much as practicable before entry into the Saracen acQuire database. - No adjustments have been made to assay data. First gold assay is utilised for resource estimation. Re-assays carried out due to failed QAQC will replace original results, though both are stored in the database.
Location of data points	<i>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</i> <i>Specification of the grid system used.</i> <i>Quality and adequacy of topographic control.</i>	- All drill hole collars are picked up by company surveyors using a Leica TS15i (total station) with an expected accuracy of +/-2mm. Underground faces are located using a Leica D5 disto with an accuracy of +/-1mm from a known survey point. Exploration RC holes have been gyroscopically downhole surveyed by ABIMS where possible once drilling is completed. Surveys are carried out every 30m downhole during RC and diamond drilling using an Eastman single shot camera. Previous holders' survey accuracy and quality is generally unknown. - A local grid system (Red October) is used. It is rotated 44.19 degrees east of MGA_GDA94. The two point conversion to MGA_GDA94 zone 51 is: ROEast RONorth RL MGAEast MGANorth RL Point 1 5890.71 10826.86 0 444223.25 6767834.66 0 Point2 3969.83 9946.71 0 442233.31 6768542.17 0 Historic data is converted to Red October local grid on export from the database - DGPS survey has been used to establish topographic surface
Data spacing and distribution	<i>Data spacing for reporting of Exploration Results.</i> <i>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</i> <i>Whether sample compositing has been applied.</i>	- The nominal spacing for the reported results are not uniform and therefore a definitive drill spacing will not be quoted. - Not all data reported meets the required continuity measures to be considered for inclusion in a resource estimate. Holes reported inside or within 40m of the resource will be incorporated into the resource model, or if sufficient density of data confirms continuity, it will be considered for inclusion in the resource. - RC drill holes are sampled to 1 m intervals and underground core and laces are sampled to geological intervals; compositing is not applied until the estimation stage. Some historic RAB

Criteria	JORC Code explanation	Commentary
		and RC sampling was composited into 3-4m samples with areas of interest resampled to 1 m intervals. It is unknown at what threshold this occurred.
Orientation of data in relation to geological structure	- Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. - If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	- RC drilling was carried out at the most appropriate angle possible. The mineralisation is intersected as closely as possible to perpendicular. The steeply dipping nature of the mineralisation means that most holes pass through mineralisation at lower angles than ideal. Production reconciliation and underground observations indicate that there is limited sampling bias. Underground diamond drilling is designed to intersect the orebody in the best possible orientation given the constraints of underground drill locations. UG faces are sampled left to right across the face allowing a representative sample to be taken due to the vertical nature of the orebody. - No significant sampling bias has been recognised due to orientation of drilling in regards to mineralised structures
Sample security	The measures taken to ensure sample security.	Samples are prepared on site under supervision of Saracen geological staff. Samples are selected, bagged into tied numbered calico bags then grouped into larger secured bags and delivered to the laboratory by Saracen personnel.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	An internal review of companywide sampling methodologies was conducted to create the current sampling and QAQC procedures. No external audits or reviews have been conducted.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	- Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. - The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	Red October is wholly located within Mining Lease M39/412. Mining Lease M39/412 is held 100% by Saracen Gold Mines Pty Ltd a wholly owned subsidiary of Saracen Mineral Holdings Limited and is subject to a bank mortgage (499142). Mining Lease M39/412 has a 21 year life (held until 2019) and is renewable for a further 21 years on a continuing basis. There is one Registered Native Title Claim over M39/412 for the Kurrku group (WC10/18), lodged December 2010. Mining Lease M39/412 was granted prior to registration of the Claim and is not affected by the Claim. Aboriginal Heritage sites within the tenement (Site Numbers WO 2442, 2447, 2448, 2451, 2452 and 2457) are not affected by current mining practices. Third party royalties are payable on the tenement. A Royalty is payable under Royalty Deed M39/411, 412, 413 based on a percentage of deemed revenue (minus allowable costs) on gold produced in excess of 160,000 ounces. A Royalty is payable based on a percentage of proceeds

Criteria	JORC Code explanation	Commentary
		of sale or percentage of mineral value. All production is subject to a Western Australian state government NSR royalty of 2.5%. The tenement is in good standing and the licence to operate already exists
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Mount Martin carried out exploration including RAB and RC drilling in 1989. This along with ground magnetics was used to delineate a number of anomalies on islands to the immediate north and south of Red October. Mount Burgess Gold Mining identified a north east trending magnetic anomaly on Lake Carey between the islands considered analogous to Sunrise Dam in 1993. Aircore and RC drilling was carried out to define what would become the Red October pit. Sons of Gwalia entered into a joint venture with Mount Burgess, carrying out RC and diamond drilling to define a pittable reserve before purchasing Mount Burgess' remaining equity. Extension RC and diamond drilling from within and around the pit defined the potential underground resource.
Geology	Deposit type, geological setting and style of mineralisation.	Red October gold mine is situated within an Archaean greenstone belt of the Laverton Tectonic Zone. The stratigraphic sequence consists of footwall tholeiitic basalts, mineralised shale (containing ductile textures defined by pyrite mineralisation) and a hanging wall dominated by ultramafic flows interbedded with high-Mg basalts. Prehnite- pumpellyite facies are evident within both the tholeiitic basalts and komatiite flows. Sulphide mineralisation is hypothesised to have been caused from interaction with an auriferous quartz vein, which has caused the intense pyrite-defined ductile textures of the shale in the upper levels. The fluid is believed to have been sourced from the intruding granitoid to the (grid) south of the deposit.

Criteria	JORC Code explanation	Commentary
Drill hole Information	- A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: - easting and northing of the drill hole collar - elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar - dip and azimuth of the hole - down hole length and interception depth - hole length. - If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	All material data is periodically released on the ASX:07/12/2016, 07/09/2016, 27/07/2016, 11/05/2016, 25/05/2015, 0/03/2015,25/05/2015,16/01/2014,14/10/2013, 23/07/2013, 17/04/2013, 25/01/2013, 14/06/2012, 27/04/2012, 28/07/2011, 03/06/2011
Data aggregation methods	- In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. - Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. - The assumptions used for any reporting of metal equivalent values should be clearly stated.	- All significant intercepts have been length weighted with a lower cut-off Au grade of 2.5ppm. No high grade cut is applied. - Intercepts are aggregated with minimum width of 1 m and maximum width of 3m for internal dilution. Where stand out higher grade zone exist with in the broader mineralised zone, the higher grade interval is reported also. - No metal equivalents are reported.
Relationship between mineralisation widths and intercept lengths	- These relationships are particularly important in the reporting of Exploration Results. - If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. - If it is not known and only the down hole lengths are reported, there should be a clear statement to	The geometry of the mineralisation is highly variable and the complex nature of the ore bodies makes the definitive calculation of true thickness difficult. Drilling has been orientated to intersect the various ore bodies at most optimum angle where possible. This has not always been achieved. Where holes have drilled parallel to or within a lode, additional holes have been drilled at a more suitable orientation to account for the poor angle.

Criteria	JORC Code explanation	Commentary
	<i>this effect (e.g. 'down hole length, true width not known').</i>	
Diagrams	• <i>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</i>	• Diagrams are referenced in the body of the release
Balanced reporting	• <i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</i>	• All results have been reported.
Other substantive exploration data	• <i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i>	• Dr John McLellan from GMEX Pty Ltd was contracted to carry out a stress modelling study on the Red October deposit. A data set of structural observations from core and field mapping was compiled and used to create a three dimensional mesh of the deposit. A series of regional scale stress fields of varying deformational stages and strengths were applied to the mesh to predict the behaviour of the Red October deposit and highlight areas of increased stress and strain and thus likely mineralisation. Two targets were drilled in the recent RC campaign with results supporting John's findings. Model Earth Pty was engaged to conduct a structural review of the Red October camp area in May 2015. Several local and regional scale targets were identified for follow-up.
Further work	• <i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> • <i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i>	• Red October is currently under review.

Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code explanation	Commentary
Database integrity	- Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes. - Data validation procedures used.	- Saracen utilises AcQuire software on an SQL server database to securely store and manage all drill hole and sample information. Data integrity protocols are built into the system to ensure data validity and minimise errors are built into the data entry and import processes. - Data that is captured in the field is entered into Excel templates which are checked on import into the database for errors. Assay jobs are dispatched electronically to the lab to minimise the chance of data entry errors. Assay results from the lab are received in CSV format and are checked for errors on import into the database. Data is regularly validated using the mining software. The data validation process is overseen by the Database Administrator.
Site visits	- Comment on any site visits undertaken by the Competent Person and the outcome of those visits. - If no site visits have been undertaken indicate why this is the case.	The Competent Person regularly visits site (Monthly and more so when the geological work is more complex and demanding) to assess geological competency and ensure integrity across all geological disciplines.
Geological interpretation	- Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit. - Nature of the data used and of any assumptions made. - The effect, if any, of alternative interpretations on Mineral Resource estimation. - The use of geology in guiding and controlling Mineral Resource estimation. - The factors affecting continuity both of grade and geology.	- The resource categories assigned to the model directly reflect the confidence in the geological interpretation that is built using structural, mineral, and alteration geology obtained from UG mapping, core logging and drill results. Confidence in the interpretation improved with increased data density from close-spaced grade control drilling at 20m X 20m and UG drive mapping. - The geological interpretation has considered all available geological information from drill core and UG mapping. It includes rock types, mineral association as well as alteration and veining assemblage information altered from all sources to help define the mineralised domains and regolith boundaries. - The geological wireframes defining the mineralised zones are considered to be robust. Alternative interpretations were trialled earlier and had a negative effect on the estimation process with zones becoming less robust. - The wireframed domains are estimated as hard boundaries during the Mineral Resource Estimation. They are constructed using all available geological information (as stated above) and terminate along known structures. Mineralisation styles, geological homogeneity, and grade distributions for each domain (used to highlight any potential for bimodal populations) are all assessed to ensure effective estimation of the domains. "Grade continuity is affected by both structural and lithological controls. Higher grades (nuggetty gold) are associated with vertical N-S striking (mine) quartz breccia structures

Criteria	JORC Code explanation	Commentary
		plunging along the northern contacts of NE (mine) dipping fault zones. Where these zones interact with the main Shale contact, high grade shoots tend to occur with steep northerly plunges internal of the shale contact. Structurally the quartz breccia and shale units are offset by the NE dipping fault zones."
Dimensions	<i>The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.</i>	Mineralization at Red October occurs over 900m along strike and to a depth of 700m. Mineralization is hosted in vertical quartz breccia zones as well as where they intersect the primary host of graphitic black shales sitting on a Mafic/ultramafic contact. Inside the primary ore zone ore is seen as nuggetty visible gold and moving away from these zones mineralization is patchy with continuity along strike of between 5-20m and sub mineralization outside zones of silica flooding/brecciation.
Estimation and modelling techniques	<i>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</i> <i>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</i> <i>The assumptions made regarding recovery of by-products.</i> <i>Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).</i> <i>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</i> <i>Any assumptions behind modelling of selective mining units.</i>	- The mineralised ore domains were wireframed based on geological homogeneity, grade populations, mineralisation styles and orientation of grade continuity. The domain wireframes were estimated as hard boundaries during the estimation process. RAB, Air-core and grab samples were excluded from the estimation process due to the unreliability of results. Negative gold grades were replaced with a grade of 0.001 g/t and null gold grades were excluded from the estimation process. Drillhole assays were composited to 1m intervals with a minimum length of 0.3m that best conformed to the sample length of the majority of the RC/DD data. High grades within each domain were identified and top cuts were applied where necessary. Variograms were produced to determine the directional influence of each sample during the estimation process. The Mineral Resource Estimate was interpolated using Ordinary Kriging in Micromine. - The Mineral Resource Estimation is checked against the previous block model estimations and reconciled production numbers. - No assumptions have been made regarding the recovery of by-products for this Mineral Resource Estimation. - No estimation of deleterious elements or non-grade variables is required. - The model has been created using a parent cell size of 2.5m (East- West) x 10m (North-South) x 10m (vertical). Sub-cells have been used to a resolution of 0.25m x 1 m x 1 m to ensure high resolution at ore boundaries. The search distances are variable and are adjusted according to the directional ranges calculated from the variograms, and the geological understanding of Au and geometry continuity for each domain. Search ellipsoids are variable and reflect individual domain conditions and are extended in later search asses with a decreased number of minimum samples where data is sparse.

Criteria	JORC Code explanation	Commentary
	<i>Description of how the geological interpretation was used to control the resource estimates.</i> <i>Discussion of basis for using or not using grade cutting or capping.</i> <i>The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.</i>	- No assumptions have been made regarding the modelling of selective mining units for this Mineral Resource Estimation. - No assumptions have been made regarding the correlation between variables for this Mineral Resource Estimation. - Mineralised domains were wireframed within the context of the known local and structural geology which was supported by the geological mapping UG and the geology logging of drillholes. Correlations between rock type, texture, alteration, and gold mineralisation were investigated. - Samples with extreme high grades that bias the mean grade and positively skew the grade population within each mineralised domains are top cut to reduce the influence high grade outliers. The geostatistical analysis to determine to cuts includes probability plots and the coefficient of variation. - A number of statistical and visual measures are used to validate the accuracy of the estimation. The mean grade of the block model is compared to the mean grade of composites by domain. These are then further investigated by appropriate northing, easting and bench intervals in the form of swathe plots. The volume variance between the wireframed domains and block model domains are assessed. Kriging efficiency, and slope results give an indication of the quality of the estimate. A visual inspection of the drill hole assay results are compared to the estimated block model in section.
Moisture	<i>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</i>	Tonnages are estimated on a dry basis.
Cut-off parameters	<i>The basis of the adopted cut-off grade(s) or quality parameters applied.</i>	A cut-off grade of 2 g/t was chosen after economic considerations for the reporting of the Red October Mineral Resource
Mining factors or assumptions	<i>Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this</i>	No assumptions have been made as to possible mining methods or dilution factors due to the variable nature of the dip and thickness of the ore body. Current mining methods employed at Red October utilize both air legging and long hole production rigs and is determined by ore body dimensions. Dilution is calculated using a low grade wireframe encompassing the ore domains which typically grades at 0.01 g/t.

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	<i>should be reported with an explanation of the basis of the mining assumptions made.</i>	
Metallurgical factors or assumptions	<i>The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.</i>	Red October has a variable recovery in certain zones dependant on the mineralized host. The lowest recoveries are in domain 110, which has a high refractory component with most ore locked in arsenopyrite, and in the unbrecciated primary shale unit which has recorded up to 2% active carbon causing it to have a preg robbing nature. Both are between 45-65% recovery. The quartz breccia has a high gravity gold component and most mineralization hosted in pyrite with recoveries varying between 80-93%. The average recovery applied to Red October and seen through the mill is 84%.
Environmental factors or assumptions	<i>Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.</i>	Waste rock characterisation has been conducted on the deposit with no environmental issues identified except dispersive oxidised material and waste dump construction plan in place to manage. Tailings from the deposit are stored in an appropriate licensed tailings facility and closure plan in place at Carosue Dam.

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Bulk density	<i>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</i> <i>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.</i> <i>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</i>	- The bulk densities for Red October were determined via testing of representative intervals from diamond drill holes, regular sampling via grab samples from the pit development. The sample size is generally between 0.5 and 1.5kg and the method of calculation is the water displacement technique. Measurements have been recorded in the acquire database and extraction schemes pair this data with the major lithology code for statistical analysis. - Ore zones predominantly exist in fresh non porous material, so additional measures to reduce moisture intake during the water displacement method is unnecessary at this stage. Coating more friable oxides and sediments (to reduce moisture loss or moisture gain during the process) is considered on a deposit by deposit basis. - An average mean of densities collected for each lithological type has been uniformly applied to the modelled geological units. The oxide and transitional zones have an assumed density based on regional work in similar deposits and general goldfields region
Classification	<i>The basis for the classification of the Mineral Resources into varying confidence categories.</i> <i>Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</i> <i>Whether the result appropriately reflects the Competent Person's view of the deposit.</i>	- Resource classifications were defined by a combination of data; drill hole spacing, estimation quality (search pass, Kriging Efficiency and Slope results), geological confidence and Au continuity of domains. Based on these factors hard boundaries were wireframed for measured, indicated and inferred material. Measured material exhibits high confidence defined by development drives and closed spaced GC drilling, with estimates in the first search and Kriging Efficiency and Slope results >80%. Indicated material is defined by close spaced drilling, having good geological continuity along strike and down dip and in such is reflected with good KE and Slope results. Inferred classification is given to the estimate outside the mineable area with more sparse drill intercepts (>25m X 25m) and having poorer estimation quality. - All relevant factors have been taken into account and are validated through thorough QAQC of the drill hole database and geological knowledge and interpretation of the Red October deposit. Thorough model validations and reviews ensure the integrity of the final estimation and the grade and tonnage numbers. - The reviewing process allows the Competent Person's to assess and sign off on the model.
Audits or reviews	<i>The results of any audits or reviews of Mineral Resource estimates.</i>	At the completion of resource estimation Saracen Gold Mines undertake an extensive review of the model that covers model inventory and comparisons to previous models. Geological interpretation, wireframing, domain selection, statistics by domain, assay evaluation, parent cell sizes, data compositing, variography, search strategy, estimation and Kriging Neighbourhood Analysis and finally model validation and resource categorisation are all discussed and scrutinised by the geological and mine planning teams.

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Discussion of relative accuracy/confidence	- Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate. - The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used. - These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.	- The Mineral Resource has been reported in accordance with the guidelines of the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Saracen Gold Mine uses a standard approach to resource estimation and the procedure requires the systematic completion of the Saracen Resource Estimation Document that is thoroughly investigated and assessed in the Model review process, as stated above. - The statement relates to global estimates. - Previous Mineral Resource estimates have had on average a positive reconciliation against mill figures