

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

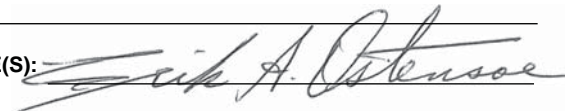
Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Rock sampling and geological reconnaissance

TOTAL COST: \$14,962.66

AUTHOR(S): Erik Ostensoe, P.Geo

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____

YEAR OF WORK: 2016/17

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5664032

PROPERTY NAME: Pitman-Keeper

CLAIM NAME(S) (on which the work was done): 854416, 1000162, 1000163, 1000263

COMMODITIES SOUGHT: Gold, Silver, Copper, Molybdenum

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Omineca

NTS/BCGS: 103I

LATITUDE: 54 ° 47 '00 " **LONGITUDE:** 128 ° 22 '00 " (at centre of work)

OWNER(S):

1) Casa Minerals Inc.

2) Farshad Shirvani

MAILING ADDRESS:

880-409 Granville St., Vancouver, BC, V6C 1T2

880-409 Granville St., Vancouver, BC, V6C 1T2

OPERATOR(S) [who paid for the work]:

1) Casa Minerals Inc.

2) _____

MAILING ADDRESS:

880-409 Granville St., Vancouver, BC, V6C 1T2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Carpenter Creek batholith - granite/granodiorite; Bowser formation clastics, Jurassic-Cretaceous, Paleocene (Bowser), quartz veins with gold and base metal values, size of veins variable - 30cm to 2m. Gold values up to 370.29 g/t, Silver up to 289.7 g/t

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 35593, 35919, 30900, 29151, 0866, 36375;

MMAR 1945

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne			
_____	_____	_____	_____
GEOCHEMICAL (number of samples analysed for...)			
Soil	_____	_____	_____
Silt 1	_____	1000162	_____
Rock 18	_____	1000162, 1000263	_____
Other	_____	_____	\$ 14,962.66
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
PROSPECTING (scale, area)	Recon. on Pitman for future work	1000162	_____
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	_____	_____	_____
Topographic/Photogrammetric (scale, area)	_____	_____	_____
Legal surveys (scale, area)	_____	_____	_____
Road, local access (kilometres)/trail	_____	_____	_____
Trench (metres)	_____	_____	_____
Underground dev. (metres)	_____	_____	_____
Other report preparation	_____	_____	_____
		TOTAL COST:	\$14,962.66

TECHNICAL REPORT - PITMAN

PROPERTY

EAST OF TERRACE, B. C.

SKEENA MINING DIVISION, BRITISH COLUMBIA, CANADA

NTS 103I

Pitman - 54°47'N, 128°22'W

UTM (NAD 83, ZONE 9) - 540724E, 6067689N

Mineral Tenures: Pitman: 854416, 1000162, 1000163, 1000263

Owners: Casa Minerals Inc. and Farshad Shirvani

Report Prepared for: Casa Minerals Inc.
880-409 Granville Street,
Vancouver, B. C., V6C 1T2

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880-490 Granville Street
Vancouver, B. C., V6C 1T2

Effective Date of Report: February 20, 2018.

Events No: 5664032 (Pitman)

[NOTE: The analytical results presented and discussed in the accompanying report relate to geochemical rock samples gathered in autumn, 2016, that had not been analysed at the time of submission of the original report. Complete analytical data are included in Appendix 1 of this technical report, along with a discussion of the resulting data.]

Table of Contents

1.0	INTRODUCTION	3
2.0	DETAILS OF PITMAN AND KEAPER TENURES.....	5
3.0	DISCUSSION OF RESULTS - Pitman Property	9
4.0	CONCLUSIONS these paragraphs will be changed.	15
5.0	REFERENCES	16
6.0	AUTHOR'S QUALIFICATIONS.....	17
7.0	STATEMENT OF EXPENDITURES	18

Table of Figures

Figure 01: Project Location in BC.....	4
Figure 02: Mineral Tenure Map.....	6
Figure 03: Regional Geology Map	8
Figure 04a: Sample Locations – Paddy Mac Prospect and Pitman.....	11
Figure 04b: Sample Values – Gold (ppm)	12
Figure 04c: Sample Values – Silver (ppm)	13
Figure 04d: Sample Values – Copper (ppm)	14

1.0 INTRODUCTION

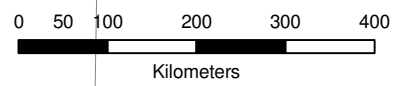
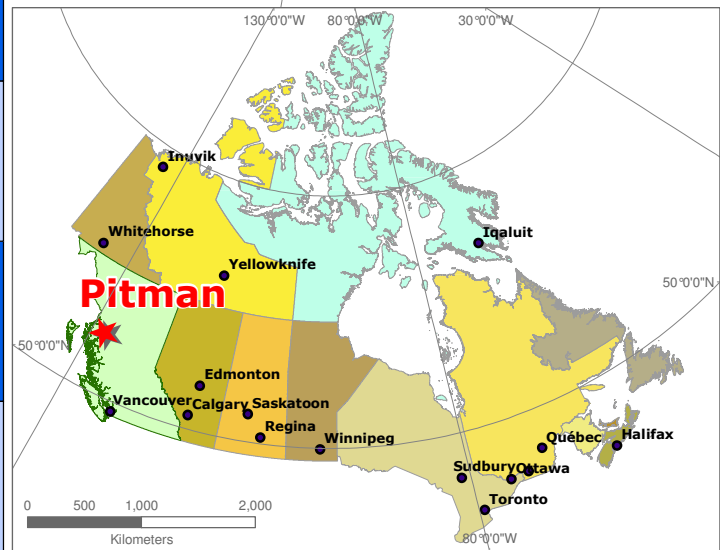
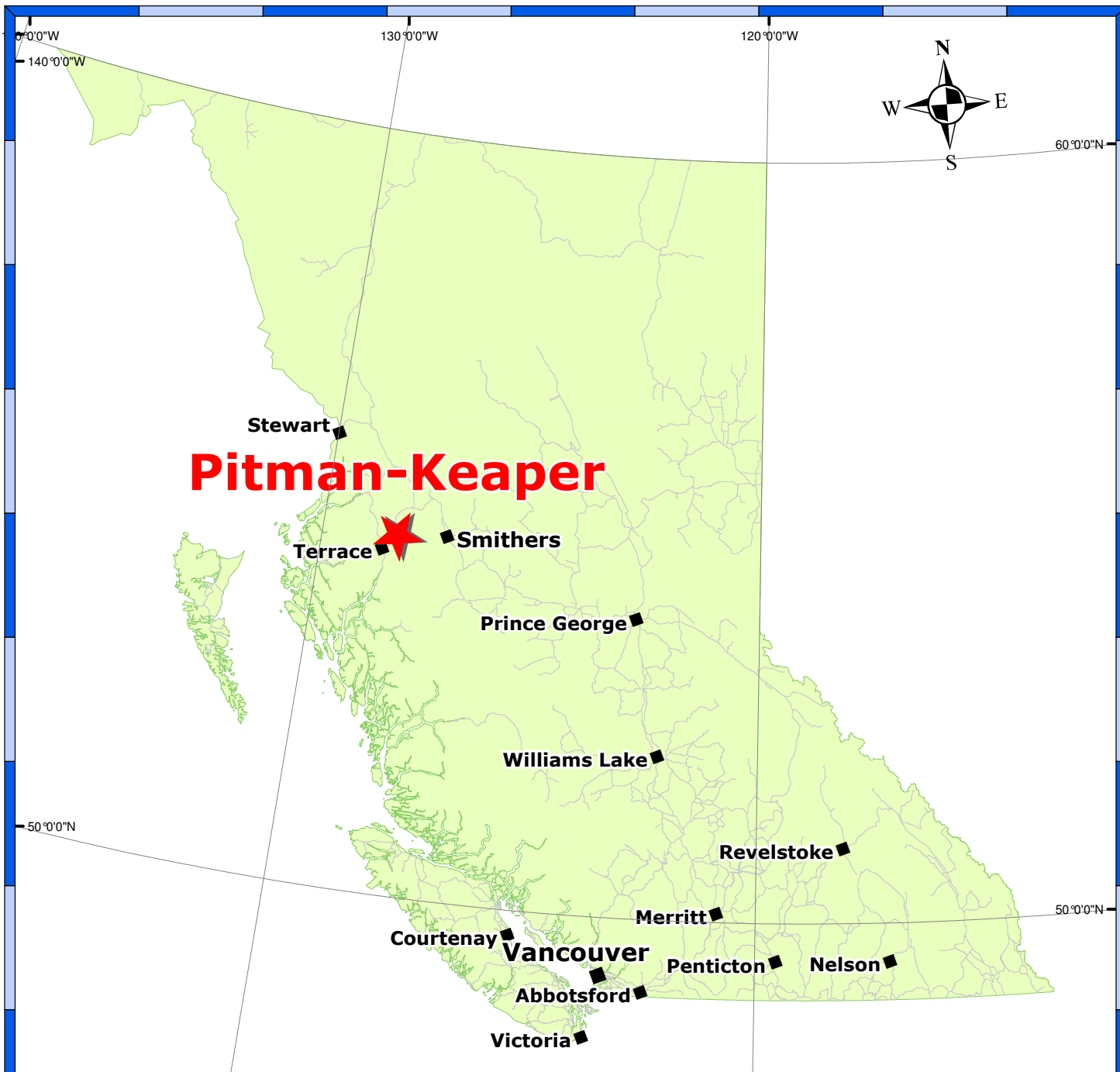
The Pitman property, located 27 km northeast of Terrace, B. C., (Figure 1) is an historic molybdenum occurrence that has been explored by technical surveys and diamond drilling since 1957. Casa Minerals Inc. and related parties have held the property since 2006 and in that period have conducted several programs of technical surveys, all of which have been reported in assessment reports (see References and Minfile).

Casa Minerals Inc. in May and June 2016, engaged Devin Grinder and Justin Zimmerlee, prospectors and experienced bush workers, to complete a program of geochemical soil and rock sampling at the Pitman mineral tenures that is the subject of this technical report. Work in the Pitman area included numerous traverses and the collection of 342 soil geochemical samples that were analysed for 33 elements by induced coupled plasma (ICP-ES) methods and 19 rock samples. Work in the Keeper area comprised traversing and sampling in the near vicinity of the reported silver occurrence(s); 183 soil samples were obtained and processed similarly to the Pitman area samples. A technical report titled "Amended Technical Report - Pitman and Keeper Properties" dated November 16, 2016, amended date March 27, 2017, includes descriptions and discussions concerning the geochemical soil samples; rock samples were not analysed and the costs associated with those samples were not included in the Statement of Expenditures that accompanied the technical 2016 report.

In July 2017, Mssrs F. Shirvani, MSc. Geol., P. Rajaei (Geol.) and Devin Grinder (labourer) examined lower elevation parts of the Pitman tenures and obtained 5 rock and 1 stream sediment samples. Data, including analyses, obtained is included in this report.

13 rock samples from the Paddy Mac gold-in-quartz veins and lower elevations of the Pitman area were submitted to an accredited analytical laboratory on November 2, 2017. Analytical results for all samples were received on December 22, 2017. The rock samples were analysed by the following methods: fire assay for gold, four acid digestion followed by ICP-AES for ore grade determinations, and by aqua regia digestion and multi-element ICP-AES for trace level resolution of 39 elements: [except as noted all values were reported as parts per million (ppm)] Au, Ag, Al, As, B, Ba, Bi, Ca %, Cd, Co, Cr, Cu, Fe %, Ga, Hg, K %, La, Mg %, Mn, Mo, Na %, Ni, P, Pb, S %, Sb, Sc, Sr, Th, Ti %, Tl, V, W, Zn and Zr.

Certificate of Analysis YVR1710947 is included in Appendix 1 of this report.



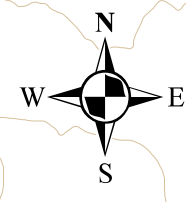
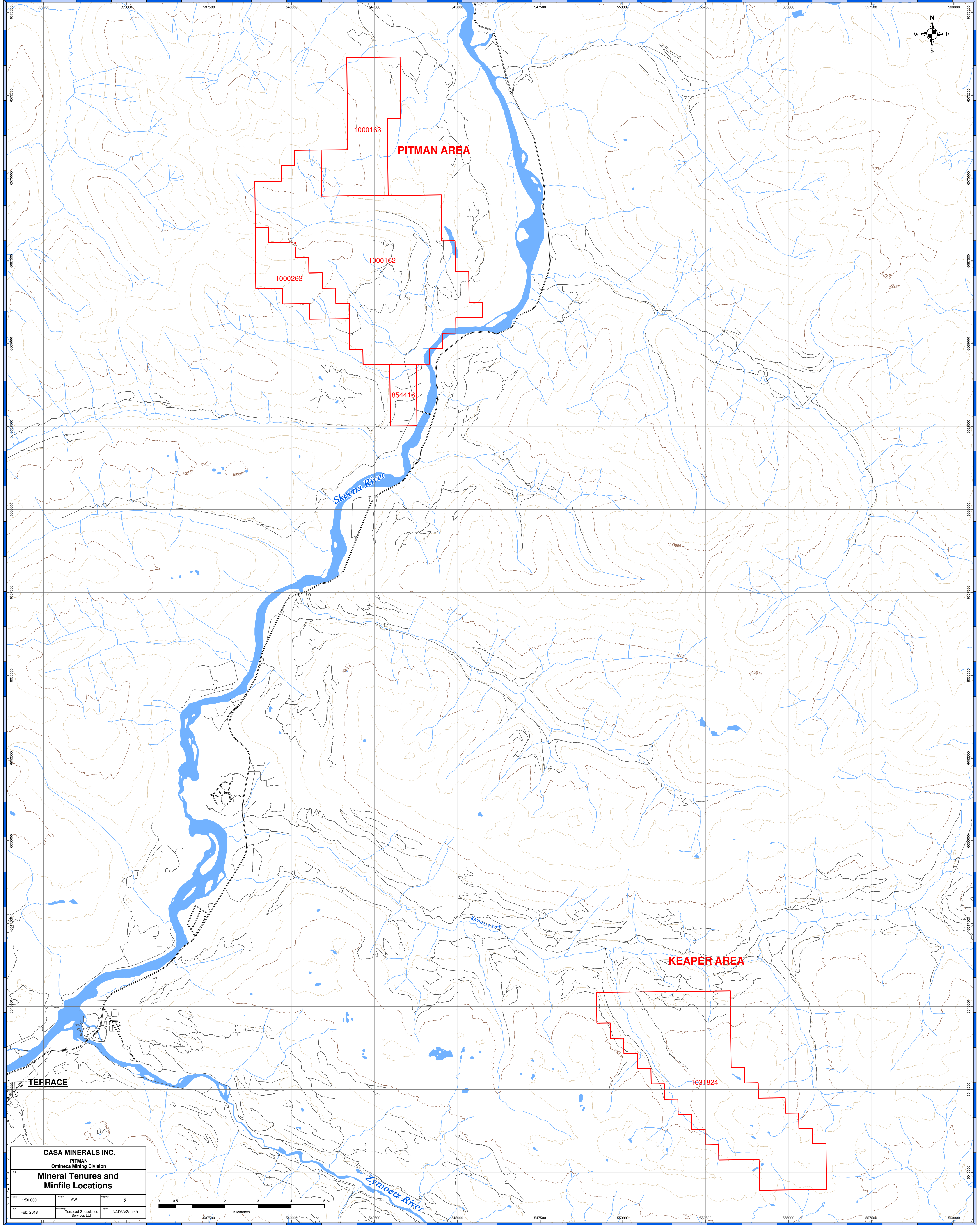
CASA MINERALS INC.		
PITMAN-KEAPER PROPERTY		
Title: Project Location in British Columbia		
Scale: 1:8,500,000	Design: AW	Figure: 1
Date: Feb, 2018	Drawing: Terracad Geoscience Services Ltd.	Datum: Long./Lat.

2.0 DETAILS OF PITMAN AND KEAPER TENURES

ARIS no. 31853, 35593, 35919 and 36375 include details of the location, physical setting, history, recent work, etc. of the Pitman and Keaper tenures. Pitman area tenures comprise 5423.16 hectares: (Table 1).

Title Number	Claim Name	Owner	Issue Date	Good To Date	Area (ha)
854416	PITMAN SOUTH	Casa Minerals Inc.	2011/may/12	2018/may/30	149.46
1000162	PITMAN	Casa Minerals Inc.	2012/jun/22	2018/may/30	2333.41
1000163	WOMO	Casa Minerals Inc.	2012/jun/22	2018/may/30	690.11
1000263	PADDY MAC	Casa Minerals Inc.	2012/jun/22	2018/may/30	373.39
1031824	KEAPER	Shirvani, Farshad	2014/oct/27	2018/jun/01	1876.80

Table 1



PITMAN AREA

1000163

1000162

1000263

854416

Skeena River

Skeena Creek

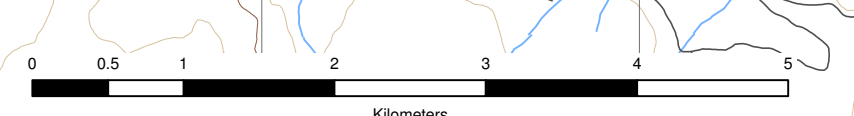
KEEPER AREA

1031824

Zymoetz River

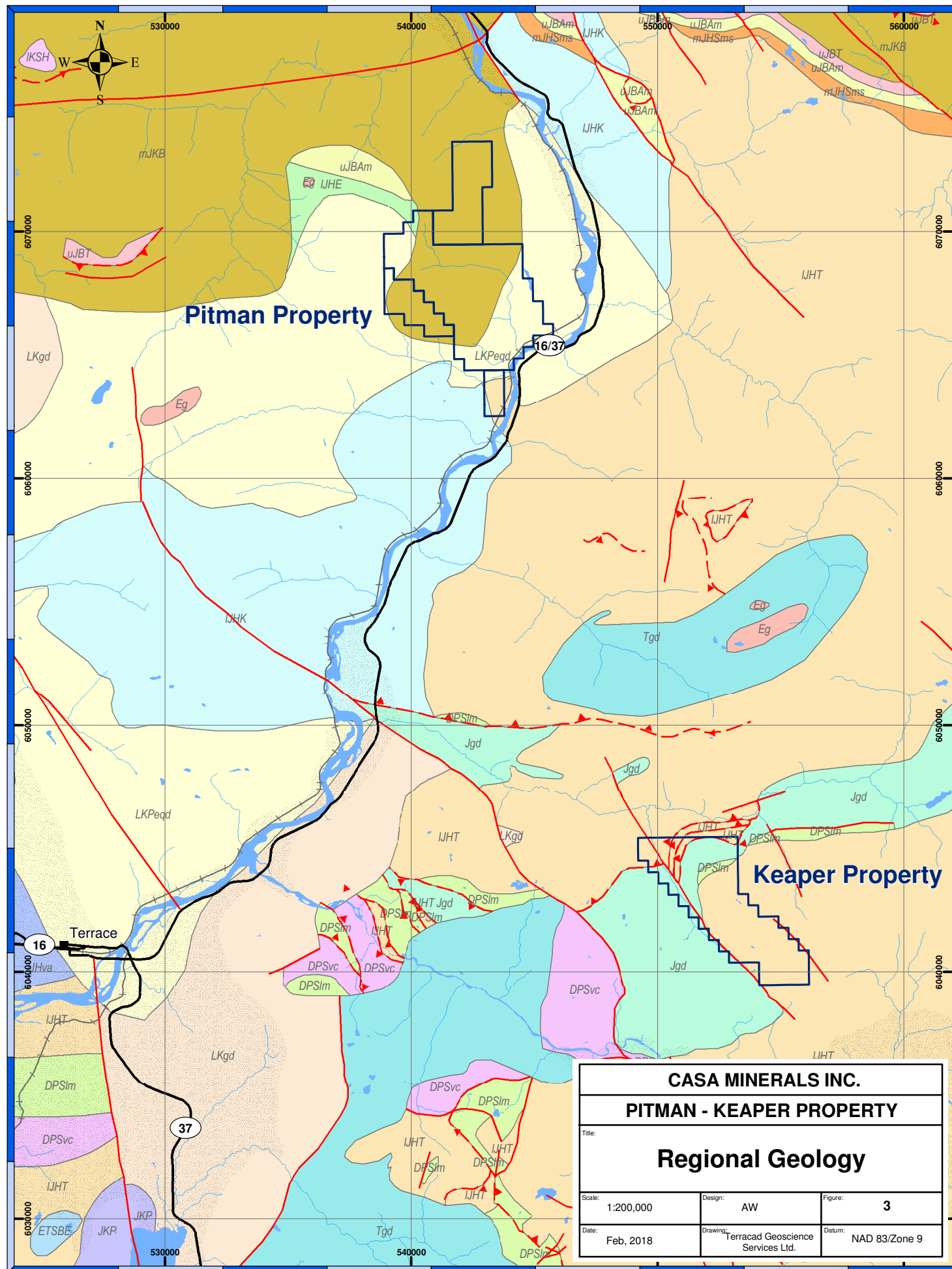
TERRACE

CASA MINERALS INC.			
PITMAN Omineca Mining Division			
Mineral Tenures and Minifile Locations			
Date: 1:50,000	Drawn: AW	Sheet: 2	
Date: Feb, 2018	Drawn: Terracad Geoscience Services Ltd.	Scale: NAD83/Zone 9	



In brief, Pitman is an historic molybdenum occurrence located close to the west side of Skeena River but the mineral tenures extend from low to high elevations to include extensive areas of sulphide occurrences proximal to the Carpenter Creek granitic intrusion. Samples from the latter area have elevated copper, gold and silver values and, less consistently, molybdenum, lead and zinc values. Recent work, since 2010, has been confined to lower elevation parts of the Pitman property.

Figure 3 illustrates regional geology of the Pitman area.

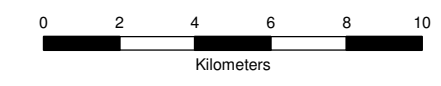


Legend

- Mineral Tenures
- Communities
- Fault
- Normal Fault
- Thrust
- Quaternary Unit

Regional Geology

- DPSlm - Paleozoic - Stikine Assemblage limestone, marble, calcareous sedimentary rocks
- DPSvc - Paleozoic - Stikine Assemblage volcaniclastic rocks
- ETSBE - Cenozoic - Strohn Creek, Mt Bolom and Ear Lake Plutons granite, alkali feldspar granite intrusive rocks
- Eg - Cenozoic - Coast Plutonic Complex(?) intrusive rocks, undivided
- JKP - Mesozoic - Poison Pluton quartz dioritic intrusive rocks
- Jgd - Mesozoic - Unnamed granodioritic intrusive rocks
- LKPeqd - Mesozoic to Cenozoic - Unnamed quartz dioritic intrusive rocks
- LKgd - Mesozoic - Unnamed granodioritic intrusive rocks
- Tgd - Cenozoic - Unnamed granodioritic intrusive rocks
- IJHE - Mesozoic - Hazelton Group - Eagle Peak Formation volcaniclastic rocks
- IJHK - Mesozoic - Hazelton Group - Kistelas Volcanics rhyolite, felsic volcanic rocks
- IJHT - Mesozoic - Hazelton Group - Telkwa Formation calc-alkaline volcanic rocks
- IJHva - Mesozoic - Hazelton Group andesitic volcanic rocks
- IKSH - Mesozoic - Skeena Group - Hanawald Conglomerate conglomerate, coarse clastic sedimentary rocks
- mJHSms - Mesozoic - Hazelton Group - Smithers Formation undivided sedimentary rocks
- mJKB - Mesozoic - Bowser Lake Group undivided sedimentary rocks
- uJBAm - Mesozoic - Bowser Lake Group - Ashman Formation mudstone, siltstone, shale fine clastic sedimentary rocks
- uJBT - Mesozoic - Bowser Lake Group - Trout Creek Formation undivided sedimentary rocks



3.0 DISCUSSION OF RESULTS - Pitman Property

The Paddy Mac prospect is located within the so-called Pitman group of mineral tenures held by Casa Minerals Inc., a junior mineral exploration company. The company since 2006 has been actively exploring the overall property and the Pitman is a property of merit with respect to filings related to obtaining trading privileges on the Toronto Stock Exchange – Venture section. Field work in the Pitman area benefited from historic drill data and from work in recent years that has been filed in ARIS reports included data compilation, prospecting, MMI and conventional soil geochemical surveys, and a structural study based on satellite imagery.

The summer 2016 program of sampling of the Paddy Mac prospect included sampling of surface outcrops and, to a limited extent, the historic adits. Although much of the historic work on the property was conducted and/or supervised by qualified engineers and geologists and is believed to be of good quality, the recent work at Paddy Mac and elsewhere comprised due diligence necessary to justify the “property of merit” qualification.

13 rock samples that were obtained as part of the sampling program were placed in storage pending company financing. As illustrated elsewhere in this report (Figure 4a) most of the rock samples were taken from accessible locations of the Paddy Mac gold prospect. Rock samples were submitted to MS Analytical Langley, B. C., an accredited independent analytical laboratory on November 2, 2017. Analyses were received on December 22, 2017 (Appendix 1).

The Paddy Mac gold prospect was accessed by overland traverses from logging roads and in part by following an historic prospectors’ trail. Speculatively, in the mid-1940s when the initial discovery and follow up work was conducted, the Paddy Mac prospect was accessed from the then-existing Carpenter Creek glacier that has since retreated and ablated to its present, much diminished, cirque location far from the gold prospect. Travel over the glacial ice directly to the vein(s) enabled sampling and greatly facilitated excavation of two very short adits into the rock face, a treacherous, very steep, east-facing rock wall that surrounds the adits. Currently, the site can be approached from the southwest in forest and mossy slopes to the edge of the cirque and thence by carefully working along the bare slope. Some of the previous prospecting and sampling work required the workers to have special skills related to mountaineering rope handling techniques.

The Paddy Mac vein is a classic gold bearing quartz vein hosted by Jurassic to Cretaceous age Bowser formation argillite and massive, monotonous, grey, equigranular granite and granodiorite related to the Coast Intrusions Complex. The occurrence is somewhat similar to the Bralorne gold mine in southern British Columbia. The vein(s) vary in thickness from centimetres to metres and pinch and swell in irregular fashion. Historic sampling has reported values as high as 10.8 and 7.05 opt gold and the vein outcrops across at least 450 metres. Overall, the vein strike is about 035° and dip is about 50° east. Average of 21 chip samples taken in 1980 by Holt over “average width of 0.36 metres was 19.54 g/tonne gold and 176.22 g/tonne silver” (Minfile report).

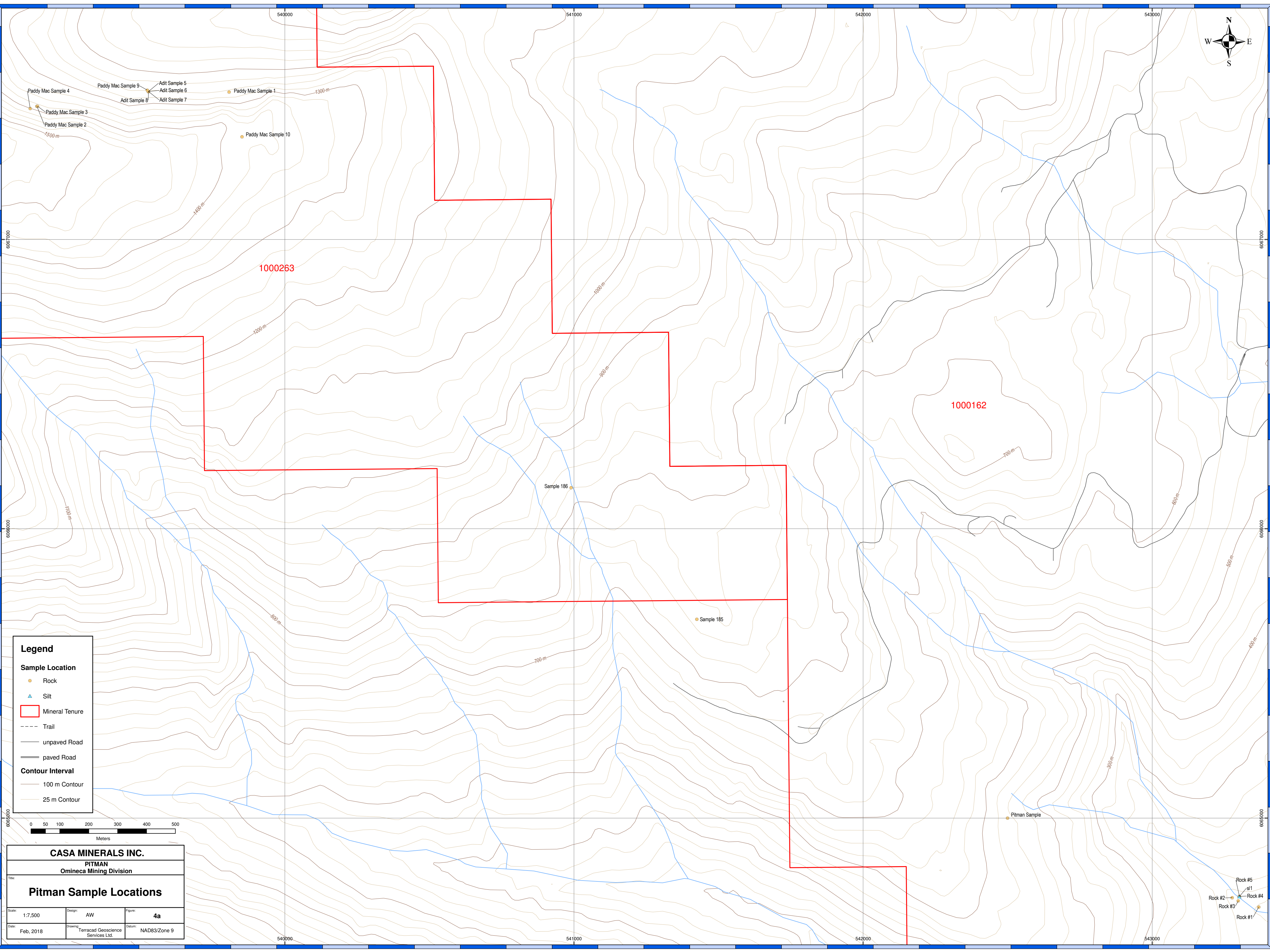
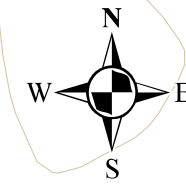
The Terracad Geoscience prospectors in 2016 were able to access the historic Paddy Mac vein and obtain both chip samples and grab samples. All sample locations were GPS-controlled (Table 2, Figure 4a), as reported by the prospectors.

Assay results from the various samples mostly show only small amounts of gold and several samples report very little (i.e. 0.007 ppm). Two samples, Paddy Mac Sample 2 and Paddy Mac Sample 3, returned significant gold and silver values – 1.286 and 0.490 ppm respectively. The latter samples confirm that the Paddy Mac vein(s) contain gold and that the various historic assay values as reported have credibility.

Five rock samples and one stream sediment sample were taken from lower elevation parts of the Pitman property during the July 2017 property visit. Details of samples are shown in Figures 4a-4d. Analyses are included in Certificate of Analyses YVR1710947; no significant metal values were reported.

Sample No	Easting	Northing	Description
Rock #1	543369	6064693	Felsic, intrusive rock with greenish hornblende?, Quartz, Feldspar, Hornblende Granite?
Rock #2	543277	6064725	Felsic foliated intrusive
Rock #3	543298	6064714	Fine grained dark green rock with schistosity and greasy feel, green chlorite?
s11	543302	6064729	silt sample from the creek
Rock #4	543302	6064729	smaller one, float
Rock #5	543302	6064729	float
Paddy Mac Sample 1	539807	6067510	
Paddy Mac Sample 2	539142	6067461	
Paddy Mac Sample 3	539144	6067461	
Paddy Mac Sample 4	539119	6067453	
Adit Sample 5	539528	6067511	
Adit Sample 6	539528	6067511	
Adit Sample 7	539528	6067511	
Adit Sample 8	539528	6067511	
Paddy Mac Sample 9	539524	6067516	
Paddy Mac Sample 10	539852	6067355	
Sample 185	541425	6065687	
Sample 186	540990	6066142	
Pitman Sample	542500	6065000	

Table 2: Sample locations and descriptions



1000263

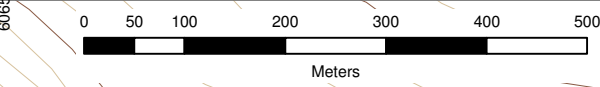
1000162

Legend

- Rock
- ▲ Silt
- ▭ Mineral Tenure
- - - Trail
- unpaved Road
- paved Road

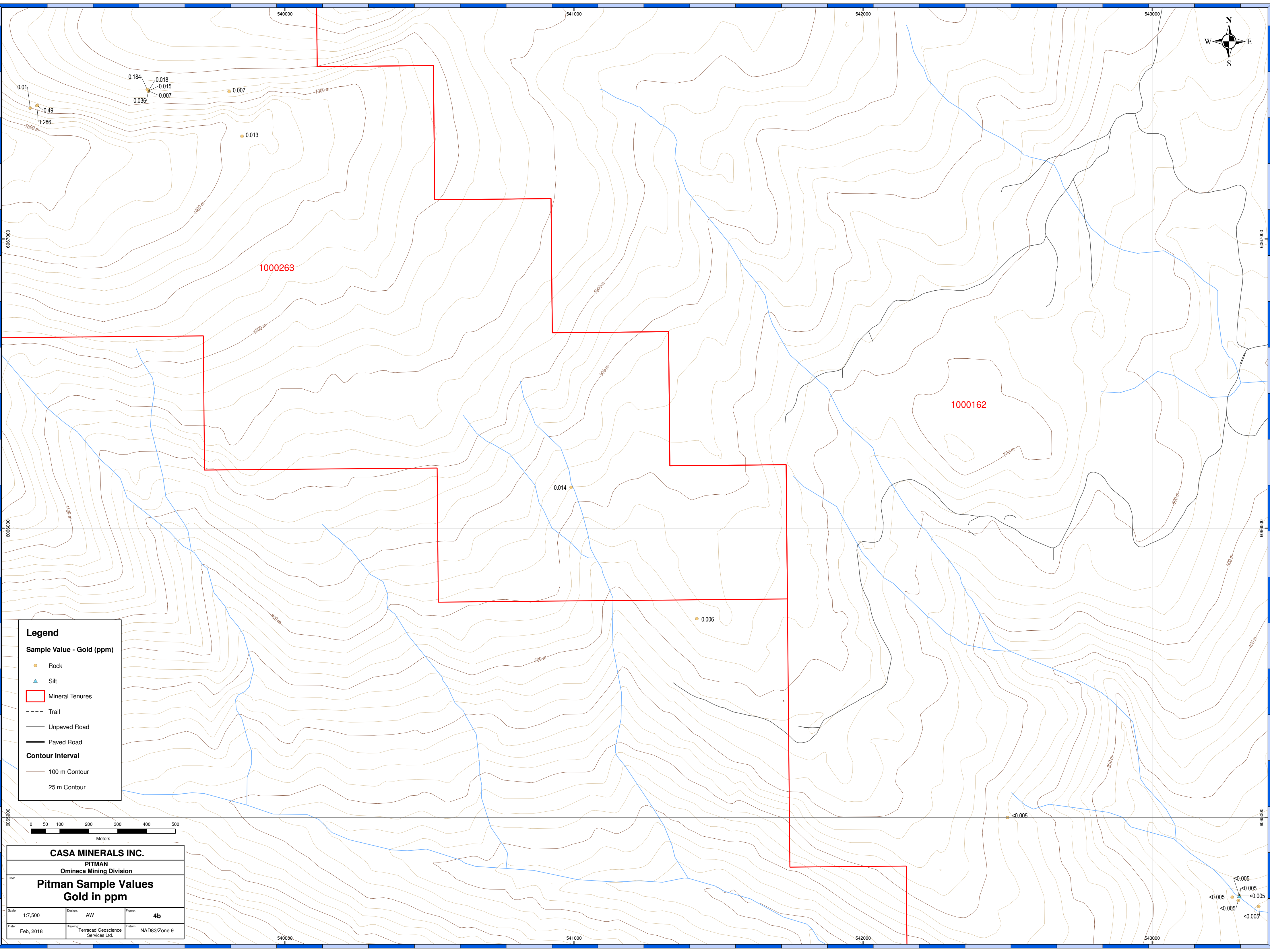
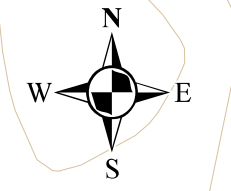
Contour Interval

- 100 m Contour
- 25 m Contour



CASA MINERALS INC.		
PITMAN Omineca Mining Division		
Pitman Sample Locations		
Scale: 1:7,500	Design: AW	Figure: 4a
Date: Feb, 2018	Drawn: Terracad Geoscience Services Ltd.	Datum: NAD83/Zone 9

Rock #5
#11
Rock #2
Rock #4
Rock #3
Rock #1



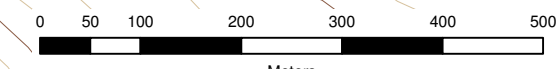
Legend

Sample Value - Gold (ppm)

- Rock
- ▲ Silt
- ▭ Mineral Tenures
- - - Trail
- Unpaved Road
- Paved Road

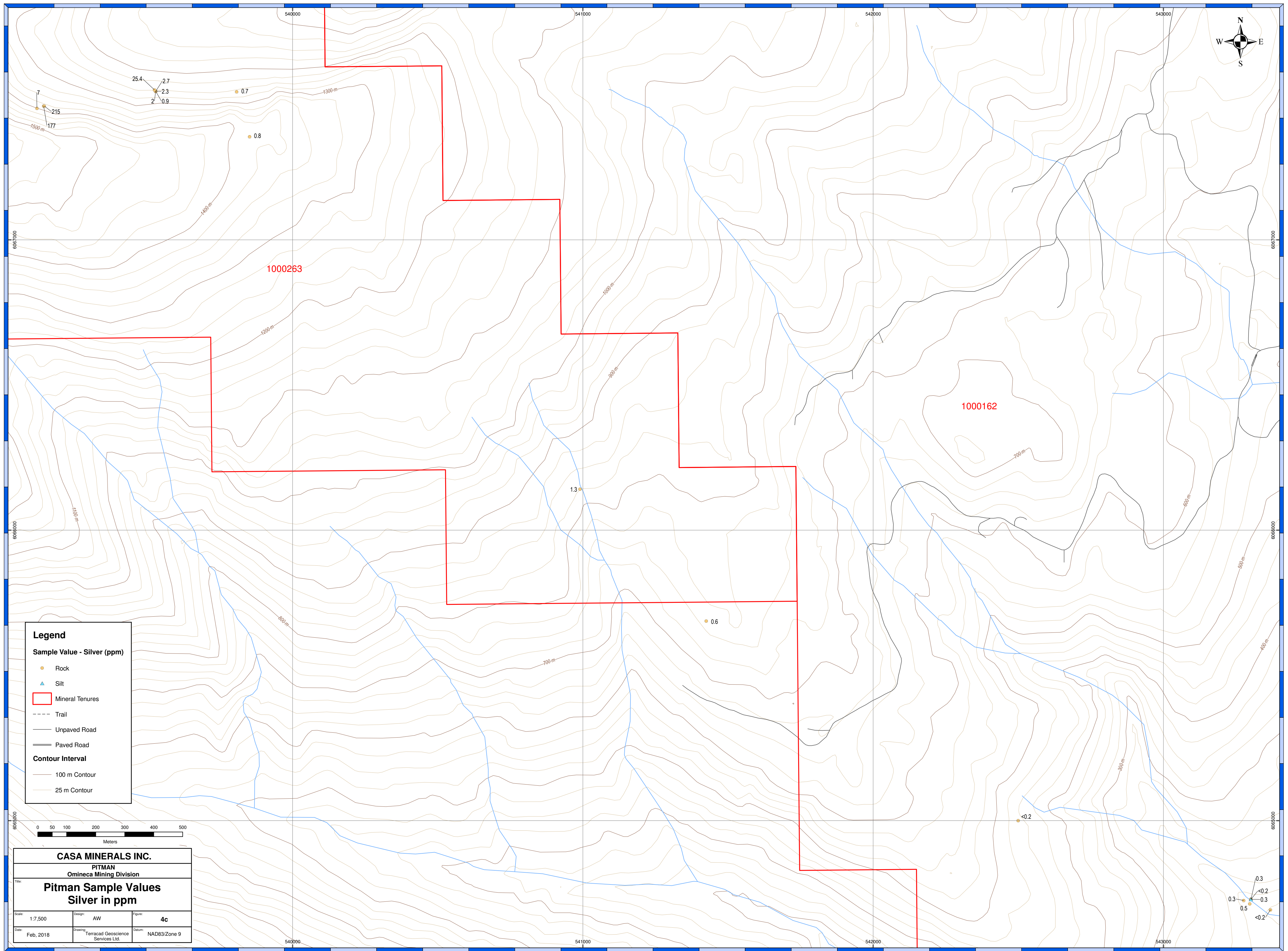
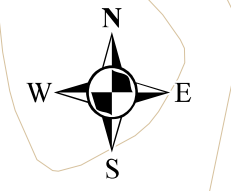
Contour Interval

- 100 m Contour
- 25 m Contour



CASA MINERALS INC.		
PITMAN Omineca Mining Division		
Title: Pitman Sample Values Gold in ppm		
Scale: 1:7,500	Design: AW	Figure: 4b
Date: Feb, 2018	Drawn: Terracad Geoscience Services Ltd.	Datum: NAD83/Zone 9

<0.005
<0.005
<0.005
<0.005
<0.005



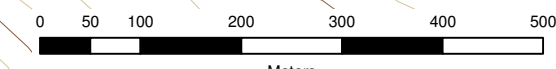
Legend

Sample Value - Silver (ppm)

- Rock
- ▲ Silt
- ▭ Mineral Tenures
- - - Trail
- Unpaved Road
- Paved Road

Contour Interval

- 100 m Contour
- 25 m Contour



CASA MINERALS INC.		
PITMAN Omineca Mining Division		
Title: Pitman Sample Values Silver in ppm		
Scale: 1:7,500	Design: AW	Figure: 4c
Date: Feb, 2018	Drawn: Terracad Geoscience Services Ltd.	Datum: NAD83/Zone 9

1000263

1000162

7
215
1900 m
177

25.4
2.7
2.3
2
0.9

0.7

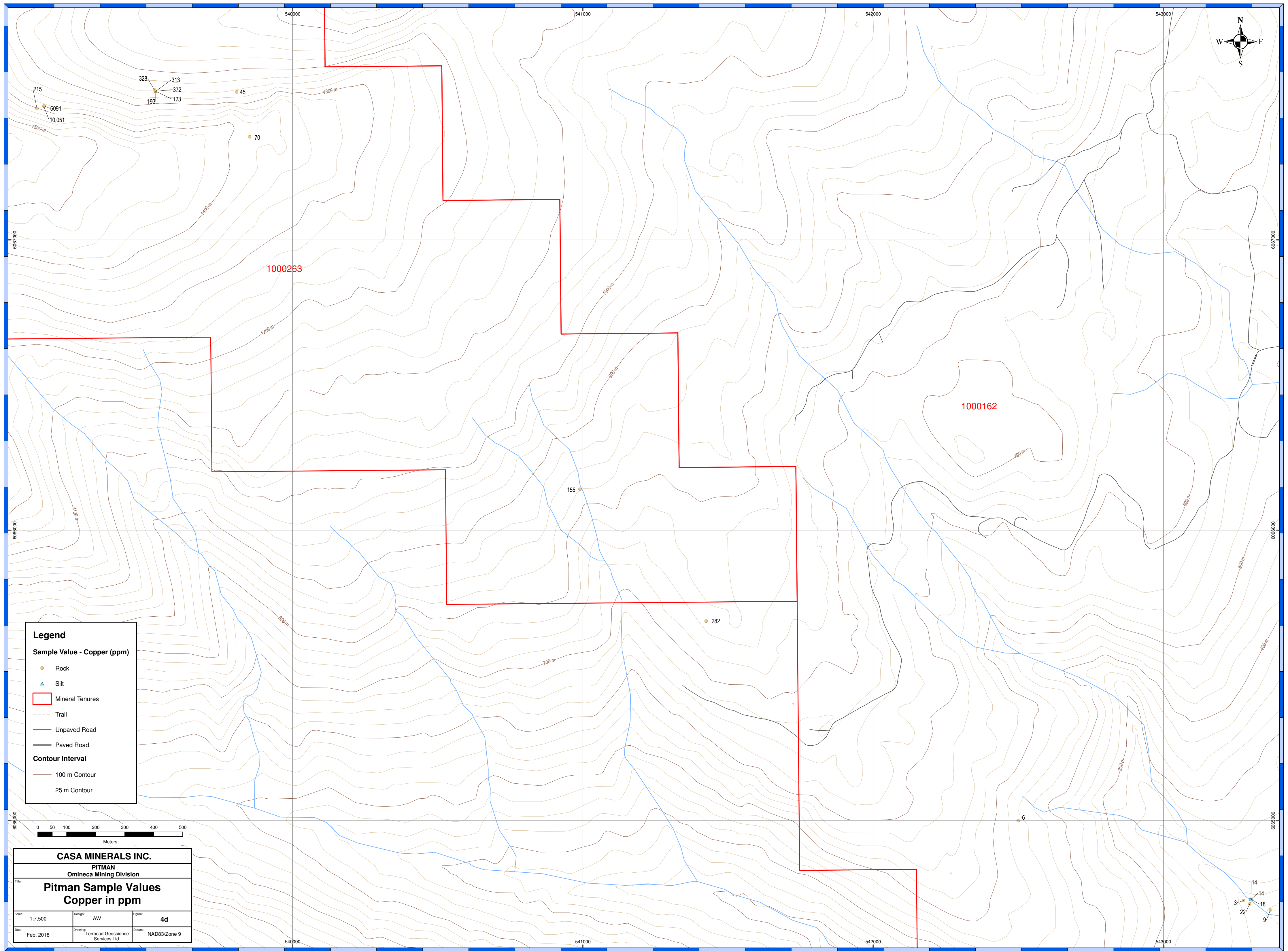
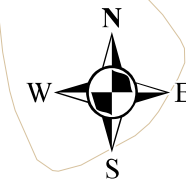
0.8

1.3

0.6

<0.2

0.3
<0.2
0.3
0.5
<0.2



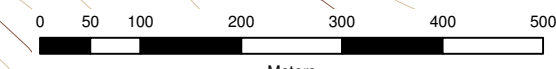
Legend

Sample Value - Copper (ppm)

- Rock (Yellow dot)
- Silt (Blue triangle)
- Mineral Tenures (Red outline)
- Trail (Dashed line)
- Unpaved Road (Thin solid line)
- Paved Road (Thick solid line)

Contour Interval

- 100 m Contour (Thick solid line)
- 25 m Contour (Thin solid line)



CASA MINERALS INC.		
PITMAN Omineca Mining Division		
Title: Pitman Sample Values Copper in ppm		
Scale: 1:7,500	Design: AW	Figure: 4d
Date: Feb, 2018	Drawn: Terracad Geoscience Services Ltd.	Datum: NAD83/Zone 9

4.0 CONCLUSIONS

The 2016 program of rock chip sampling in the vicinity of the Paddy Mac quartz veins provided evidence in support of historic metal values reported by earlier prospectors and engineers. The area is treacherous and the samplers were not equipped with tools and skills to safely replicate reported samples obtained by persons with mountaineering skills.

The 2016 samples provide sufficient evidence in support of the suggestion that the Paddy Mac prospect warrants further exploration for possibly viable gold/silver resources. Further exploration in the form of chip sampling of the veins from surface and from underground workings is likely to confirm results from the earlier work. Drilling from sites located at higher elevation where the terrain is more manageable is definitely possible: the objection is that, due to the apparently spotty distribution of gold within the veins, drill holes may not provide satisfactory sample data.

A better test of Paddy Mac metal values will be in the form of underground exploration: the existing adits could be used as starting points for drift mining along the length of the veins.

Sampling in the low elevation Pitman molybdenum area failed to provide useful indications of the distribution of molybdenum values. The sample size is very small and the analytical results cannot be applied to the whole area.

5.0 REFERENCES

The following sources were consulted as part of the preparation of the accompanying report:

Duffell, S. and Souther, J. G., (1964) Geology of Terrace Map-Area, British Columbia (103I E1/2), Geol. Surv. Canada, Memoir 329

Kruchkowski, E. R., 1980, Drill Report on the Pit IV Claim, Omineca M. D., B. C., report to E & B Explorations Inc. filed as assessment report # 07993, ARIS, Geol. Surv. Branch, Ministry of Energy, Mines and Petroleum Resources

McKeown, M., Nelson, J. L. and Friedman, R (2008): Newly discovered volcanic-hosted massive sulphide potential within Paleozoic volcanic rocks of the Stikine assemblage, Terrace area, northwestern British Columbia (NTS 103I/08); in Geological Fieldwork 2007, B. C. Ministry of Energy, Mines and Petroleum Resources, Paper 2008-1, pp. 103 - 116

MINFILE, 2015, MINFILE BC mineral deposits database; BC Ministry of Energy and Mines, accessible from computer search services

Nelson, J. and Kennedy, R., 2007, Terrace Regional Mapping Project Year 2: New Geological Insights and Exploration Targets (NTS 103I/16S, 10W), West-Central British Columbia, entry in Geological Fieldwork 2006, Paper 2007-1, Geol. Surv. Branch, Ministry of Energy, Mines and Petroleum Resources, British Columbia

Nelson, J., Kyba, J, McKeown, M., and Angen, J., 2008, Terrace Regional Mapping Project Year 3: Contributions to Stratigraphic, Structural and Exploration Concepts, Zymoetz River to Kitimat River, East-Central British Columbia (NTS 103I/08), entry in Geological Fieldwork 2007, Paper 2008-1, Geol. Surv. Branch, Ministry of Energy, Mines and Petroleum Resources, British Columbia

Ostensoe, E. A., 2015, Technical Report, Pitman and Keaper Properties, East of Terrace, B. C., ARIS #35593

Ostensoe, E. A., 2016a, Technical Report – Pitman and Keaper Properties, East of Terrace, B. C., Skeena Mining Division, British Columbia, Canada, ARIS #35919

Ostensoe, E. A., 2016b, Technical Report – Pitman and Keaper Properties, East of Terrace, B. C., Skeena Mining Division, British Columbia, ARIS #36375

Payie, G. and Ostensoe, E.A., 2009, Technical Report, Pitman Borden Properties, Skeena River Area, Omineca Mining Division, Northwestern British Columbia, ARIS #30900, Geol. Surv. Branch, B.C. Ministry of Energy, Mines and Petroleum Resources

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6.0 AUTHOR'S QUALIFICATIONS

Erik Ostensoe, P. Geo., consulting geologist, is the principal author of the accompanying report. He has been active in mineral exploration work for more than 45 years and is familiar with the geology of base metal deposits and with the geology of all parts of the Canadian Cordillera.

Anke Woodworth, GIS specialist, has special training in data management and the preparation of graphic presentations of data from various sources, including satellite imagery. She has worked in the mineral exploration industry for more than ten years and is familiar with most aspects of field work, including geophysical surveys and drilling.

7.0 STATEMENT OF EXPENDITURES

The following expenditures were incurred in completing the field work and analyses that are reported in the accompanying report:

Expenses for sampling program:

Dates July 24- July 27, 2017 (4 days)

Devin Grinder – field worker, Parviz Rajai, Geo, Farshad Shirvani, Geo

Farshad Shirvani, Geologist and supervisor (field plus 1 day extra) @ 625/day	\$3,125.00
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Parviz Rajei, Geologist @ 600/day	\$2,400.00
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Devin Grinder @ 400/day	\$1,600.00
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Expenses

Gas/Transportation to the airport	\$147.43
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Food allow \$60 per person per day	\$720.00
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Supplies	\$50.00
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Hotel	\$1,159.38
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Travel – Flights from Vancouver (@ 488.96 each)	1,466.88
---	----------

Extra luggage charges	131.25
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Truck rental	576.25
--------------	--------

Lab charges	586.47
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Reporting

Erik Ostensoe, P. Geo, 2 days @ \$600	\$1,200.00
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GIS mapping, expediting and report editing 18hrs@\$100	\$1,800.00
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Total	\$14,962.66
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APPENDIX 1

MS ANALYTICAL CERTIFICATE OF ANALYSIS YVR1710947



MS Analytical

An A2 Global Company

MS Analytical
Unit 1, 20120 102nd Avenue
Langley, BC V1M 4B4
Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**
Suite 880-409 Granville St.
Vancouver, B.C.
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1710947

Project Name: Pitman
Job Received Date: 02-Nov-2017
Job Report Date: 22-Dec-2017
Number of Samples: 19
Report Version: Final

COMMENTS:

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICF-6Ag	Ag, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICF-6Cu	Cu, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICF-6Pb	Pb, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICP-130	Multi-Element, 0.5g, 3:1 Aqua Regia, ICP-AES, Trace Level

Signature:

Yvette Hsi, BSc.
Laboratory Manager
MS Analytical



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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Ag Ag ppm	ICF-6Cu Cu %	ICF-6Pb Pb %	ICP-130 Ag ppm	ICP-130 Al %	ICP-130 As ppm	ICP-130 B ppm	ICP-130 Ba ppm	ICP-130 Be ppm	ICP-130 Bi ppm
Granite Blank	QC-P-BK	--		<0.005				0.2	1.87	<2	<10	93	<0.5	<2
Granite Blank	QC-P-BK	--		<0.005				0.3	1.85	<2	<10	87	<0.5	<2
Paddy Mac Sample 1	Rock	4.14		0.007				0.7	2.40	23	<10	83	<0.5	4
Paddy Mac Sample 2	Rock	1.65		1.286	177	1.051		>100	0.15	102	<10	29	<0.5	148
Paddy Mac Sample 3	Rock	1.61		0.490	215		1.31	>100	0.05	38	<10	<10	<0.5	286
Paddy Mac Sample 4	Rock	1.18		0.010				7.0	0.85	<2	<10	78	<0.5	9
Paddy Mac Sample 5	Rock	2.51		0.018				2.7	1.12	18	<10	42	<0.5	3
Paddy Mac Sample 6	Rock	2.86		0.015				2.3	1.31	30	<10	139	0.7	3
Paddy Mac Sample 7	Rock	1.89		0.007				0.9	1.88	6	<10	159	0.9	<2
Paddy Mac Sample 8	Rock	2.50		0.036				2.0	0.37	10	<10	70	<0.5	2
Paddy Mac Sample 9	Rock	3.19		0.184				25.4	0.04	10	<10	<10	<0.5	<2
Paddy Mac Sample 9PD	QC-PD	--		0.193				24.5	0.04	10	<10	<10	<0.5	3
Paddy Mac Sample 10	Rock	1.08		0.013				0.8	4.24	<2	<10	91	<0.5	<2
Sample 185	Rock	2.74		0.006				0.6	0.56	<2	<10	67	<0.5	6
Sample 186	Rock	2.61		0.014				1.3	1.25	66	<10	80	<0.5	4
Pitman Sample	Rock	1.41		<0.005				<0.2	0.70	<2	<10	219	<0.5	<2
Rock 1	Rock	0.60		<0.005				<0.2	0.52	<2	<10	34	<0.5	<2
Rock 2	Rock	0.54		<0.005				0.3	0.62	<2	<10	55	<0.5	<2
Rock 3	Rock	0.62		<0.005				0.5	3.20	<2	<10	21	<0.5	<2
Rock 4	Rock	0.66		<0.005				0.3	0.27	<2	<10	40	<0.5	<2
Rock 5	Rock	1.54		<0.005				0.3	0.28	<2	<10	38	<0.5	<2
sl1	Silt	0.32		<0.005				<0.2	0.72	<2	<10	211	<0.5	<2

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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Ag Ag ppm	ICF-6Cu Cu %	ICF-6Pb Pb %	ICP-130 Ag ppm	ICP-130 Al %	ICP-130 As ppm	ICP-130 B ppm	ICP-130 Ba ppm	ICP-130 Be ppm	ICP-130 Bi ppm
DUP Rock 5		0.01	LOR	0.005	1	0.001	0.01	0.2	0.01	2	10	10	0.5	2
DUP Paddy Mac Sample 3				0.550				0.4	0.27	<2	<10	38	<0.5	<2
STD BLANK				<0.005				<0.2	<0.01	<2	<10	<10	<0.5	<2
STD BLANK					<1	<0.001	<0.01							
STD OREAS 601				1.238				48.6	0.81	304	<10	105	0.7	20
STD OxH122					150	0.341	1.21							
STD CDN-ME-1303														

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	ICP-130 Ca %	ICP-130 Cd ppm	ICP-130 Co ppm	ICP-130 Cr ppm	ICP-130 Cu ppm	ICP-130 Fe %	ICP-130 Ga ppm	ICP-130 Hg ppm	ICP-130 K %	ICP-130 La ppm	ICP-130 Mg %	ICP-130 Mn ppm	ICP-130 Mo ppm	ICP-130 Na %
Sample ID	0.01	0.5	1	1	1	0.01	10	1	0.01	10	0.01	5	1	0.01
Granite Blank	1.05	<0.5	9	31	23	2.35	<10	<1	0.26	<10	0.75	370	<1	0.18
Granite Blank	1.05	<0.5	9	30	22	2.39	<10	<1	0.25	<10	0.78	380	<1	0.18
Paddy Mac Sample 1	1.05	<0.5	14	59	45	5.25	10	<1	0.25	<10	1.00	425	3	0.04
Paddy Mac Sample 2	0.03	15.6	15	23	>10000	2.83	<10	<1	0.06	<10	0.02	393	5	0.01
Paddy Mac Sample 3	0.03	18.5	3	30	6091	1.17	<10	<1	0.02	<10	<0.01	126	1	0.01
Paddy Mac Sample 4	1.27	0.5	3	9	215	1.45	<10	<1	0.18	<10	0.43	232	<1	0.07
Paddy Mac Sample 5	0.05	8.1	27	33	313	3.40	<10	<1	0.14	<10	0.42	769	6	0.02
Paddy Mac Sample 6	0.17	10.1	22	28	372	4.36	<10	<1	0.32	11	0.32	630	5	0.03
Paddy Mac Sample 7	0.15	11.0	24	33	123	4.34	<10	<1	0.33	11	0.64	679	1	0.03
Paddy Mac Sample 8	0.07	8.0	9	20	193	1.68	<10	<1	0.19	<10	0.04	410	5	0.02
Paddy Mac Sample 9	<0.01	<0.5	5	31	328	1.97	<10	<1	0.02	<10	<0.01	48	2	0.01
Paddy Mac Sample 9PD	<0.01	<0.5	5	31	337	2.03	<10	<1	0.02	<10	<0.01	51	3	0.01
Paddy Mac Sample 10	0.32	0.5	19	108	70	7.80	21	<1	0.17	10	1.70	1296	<1	0.05
Sample 185	0.04	<0.5	21	7	282	2.95	<10	<1	0.23	<10	0.16	260	<1	0.06
Sample 186	0.07	8.7	19	24	155	4.15	<10	<1	0.24	<10	0.65	426	3	0.02
Pitman Sample	0.21	<0.5	3	8	6	1.77	<10	<1	0.23	<10	0.44	312	<1	0.09
Rock 1	0.10	<0.5	2	9	9	1.20	<10	<1	0.12	<10	0.30	265	<1	0.08
Rock 2	0.68	<0.5	3	8	3	1.54	<10	<1	0.11	<10	0.44	432	<1	0.07
Rock 3	3.76	<0.5	27	171	22	5.00	16	<1	0.07	<10	4.28	1451	<1	0.03
Rock 4	0.45	<0.5	7	9	18	1.45	<10	<1	0.09	<10	0.17	175	<1	0.06
Rock 5	0.65	<0.5	5	10	14	1.17	<10	<1	0.11	<10	0.15	200	<1	0.07
sl1	0.24	<0.5	4	11	14	1.73	<10	<1	0.23	<10	0.30	378	14	0.08

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Project Name: Pitman
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	ICP-130 Ca %	ICP-130 Cd ppm	ICP-130 Co ppm	ICP-130 Cr ppm	ICP-130 Cu ppm	ICP-130 Fe %	ICP-130 Ga ppm	ICP-130 Hg ppm	ICP-130 K %	ICP-130 La ppm	ICP-130 Mg %	ICP-130 Mn ppm	ICP-130 Mo ppm	ICP-130 Na %
Sample ID	0.01	0.5	1	1	1	0.01	10	1	0.01	10	0.01	5	1	0.01
DUP Rock 5	0.62	<0.5	4	10	15	1.12	<10	<1	0.11	<10	0.14	192	<1	0.07
DUP Paddy Mac Sample 3	<0.01	<0.5	<1	<1	<1	<0.01	<10	<1	<0.01	<10	<0.01	<5	<1	<0.01
STD BLANK														
STD BLANK														
STD OREAS 601	1.03	8.2	5	44	1014	2.18	<10	<1	0.25	12	0.19	436	3	0.08
STD OxH122														
STD CDN-ME-1303														

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	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130	ICP-130
	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	V	W	Zn	Zr
Sample ID	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	1	10	2	0.01	2	2	1	8	0.01	10	1	10	1	5
Granite Blank	14	578	4	0.09	2	4	76	<8	0.16	<10	58	<10	43	<5
Granite Blank	13	581	6	0.08	4	4	75	<8	0.16	<10	58	<10	41	5
Paddy Mac Sample 1	81	5408	19	0.72	<2	4	27	<8	<0.01	<10	57	<10	91	5
Paddy Mac Sample 2	70	130	8506	0.93	8	<2	8	<8	<0.01	<10	6	<10	824	<5
Paddy Mac Sample 3	20	23	>10000	0.77	31	<2	2	<8	<0.01	<10	2	<10	530	<5
Paddy Mac Sample 4	2	540	391	0.03	<2	2	52	<8	0.02	<10	20	<10	49	13
Paddy Mac Sample 5	70	203	168	0.37	4	3	7	<8	<0.01	<10	27	<10	440	<5
Paddy Mac Sample 6	81	974	154	0.16	2	4	18	<8	<0.01	<10	31	<10	451	<5
Paddy Mac Sample 7	94	948	86	0.11	<2	3	20	<8	<0.01	<10	38	<10	425	<5
Paddy Mac Sample 8	24	354	1362	0.08	3	<2	8	<8	<0.01	<10	11	<10	440	<5
Paddy Mac Sample 9	8	16	498	1.03	3	<2	2	<8	<0.01	<10	2	<10	20	<5
Paddy Mac Sample 9PD	8	15	474	1.00	<2	<2	2	<8	<0.01	<10	2	<10	16	<5
Paddy Mac Sample 10	99	1526	32	0.07	4	11	27	11	0.06	<10	113	<10	162	5
Sample 185	34	289	11	1.98	<2	<2	10	<8	<0.01	<10	10	<10	22	7
Sample 186	33	384	33	2.28	<2	<2	3	<8	<0.01	<10	29	<10	1418	<5
Pitman Sample	2	616	8	0.02	<2	<2	27	<8	0.06	<10	33	<10	75	<5
Rock 1	1	275	8	<0.01	<2	<2	10	<8	<0.01	<10	20	<10	41	<5
Rock 2	<1	342	8	<0.01	<2	2	31	<8	0.06	<10	26	<10	51	<5
Rock 3	59	718	6	<0.01	<2	18	114	<8	0.11	<10	155	<10	67	<5
Rock 4	3	88	13	0.01	<2	<2	21	<8	<0.01	<10	47	<10	13	<5
Rock 5	2	86	8	0.01	2	<2	29	<8	<0.01	<10	33	<10	13	<5
sl1	5	506	7	0.03	<2	3	29	<8	0.02	<10	24	<10	41	<5

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	ICP-130 Ni ppm	ICP-130 P ppm	ICP-130 Pb ppm	ICP-130 S %	ICP-130 Sb ppm	ICP-130 Sc ppm	ICP-130 Sr ppm	ICP-130 Th ppm	ICP-130 Ti %	ICP-130 Tl ppm	ICP-130 V ppm	ICP-130 W ppm	ICP-130 Zn ppm	ICP-130 Zr ppm
Sample ID	1	10	2	0.01	2	2	1	8	0.01	10	1	10	1	5
DUP Rock 5	1	81	8	0.02	<2	<2	28	<8	<0.01	<10	31	<10	15	<5
DUP Paddy Mac Sample 3														
STD BLANK	<1	<10	<2	<0.01	<2	<2	<1	<8	<0.01	<10	<1	<10	<1	<5
STD BLANK														
STD BLANK														
STD OREAS 601	24	364	272	1.01	17	<2	36	<8	0.01	<10	10	<10	1255	29
STD OxH122														
STD CDN-ME-1303														

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