MME Form 9
Rev. Mar. 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
GEOLOGICAL SURVEY

OFFICIAL DOCKET FILE

Contract No. 14-23- _____ Docket No. MME-6523

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports

- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

Folders No. _____: Maps (Use pocket folder or envelope)

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

52615

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
36 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, SEP 26 1966

ASSAYED FOR

Janus Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT
3684	.12	[illegible]						
3685	0.02	[illegible]						
3686	0.02	[illegible]						
3687	0.05	[illegible]						
3688	0.08	[illegible]	Trace					
3689	Trace	Trace	Trace					
3690	0.04	[illegible]	1.4					
3691	Trace	[illegible]	Trace					
3692	Trace	[illegible]	Trace					
3693	Trace	[illegible]	Trace					
3694	Trace	.3	Trace					
3695	Trace	[illegible]	Trace					

*Gold not deducted

Charges $62.00

GOODALL BROS.

By Horace Hand

Rec'd. 10/6/66
Letter 10/3/66

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, SEP 21 1966

ASSAYED FOR

Janna Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	~~XXX~~ Pt oz/ton	PER CENT
3676	Trace	0.6		None			None Found	
3678	0.04	0.6						
3679	0.04	0.4						
3680	0.04	0.2						
3681	0.49	0.6						
3682	0.04	0.4						
3683	Trace	0.4						

*Gold not deducted

Charges $ 35.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HANS, OWNER-MANAGER
RES. PHONE 442-6994

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana SEP 18 1900

ASSAYED FOR
Janus Mining Co.

Hand Sample ☒
Control Assay ☐
Umpire Assay ☐

DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	INSOL. Per Cent	Per Cent	Per Cent	
3657	0.32	2.0							
8	0.03	0.3							
9	0.02	0.3	0.3						
60	0.22	1.3	0.2						
1	0.06	0.8	0.2						
2	0.26	2.0	0.2						
3	Trace	0.3	Trace						
4	0.02	0.2	Trace						
5	Trace	0.2							
6	Trace	0.2							
7	Trace	0.3							
8	Trace	0.2							
9	Trace	0.2							
70	Trace	0.2							
1	Trace	0.2							
2	Trace	0.2							
3	Trace	0.1							
4	Trace	0.2		Trace					
5	Trace	0.2							

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, AUG 9 1966

ASSAYED FOR

Jarms Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
3637	0.06	0.2							
3638	0.04	0.2	Trace						
3639	0.02	0.2	None						
3640	0.02	0.2	None						
3641	0.01	0.1	Trace						
3642	1.50	0.7							
3643	0.08	0.6	Trace						
No Tag	0.04	0.4	None						

*Gold not deducted

Charges $43.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HANG, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, JUL 27 1966

ASSAYED FOR
Janus Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
3620	0.01	0.2							
3621	Trace	Trace							
3622	0.20	Trace							
3623	Trace	0.2							
3624	0.02	0.2							
3625	0.16	0.5							
3626	0.14	0.5							
3627	0.02	Trace							
3628	0.01	Trace							
3629	Trace	0.4							
3630	Trace	0.2							
X	Trace	0.2							

*Gold not deducted

Charge $42.00

GOODALL BROS.
By Horace Hang

GOODALL BROTHERS

ESTABLISHED 1900

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, JUL 22 1966

ASSAYED FOR
Janus Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
3400	Trace	0.2							
3616	0.01	0.2							
3617	Trace	Trace							
3618	0.02	0.4							
3619	0.16	1.1							

*Gold not deducted

Charges $17.50

GOODALL BROS.
By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0004

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, JUL 14 1966

ASSAYED FOR

Jesse Mining Co.

HAND SAMPLE

DESCRIPTION		GOLD Oz. Per Ton	SILVER Oz. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	INSOL. Per Cent	Per Cent	Per Cent	
	3607	0.05	0.4							
	3608	0.12	0.5							
	3609	0.14	0.7							
	3610	0.08	0.4							

*Gold not detected

Charges $14.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-6004

PHONE 406/442-3779
46 SOUTH MAIN ST.
P. O. BOX 887
HELENA, MONTANA 59601

Helena, Montana, JUL 8 - 1966

ASSAYED FOR

Jesse Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	INSOL. Per Cent	Per Cent	Per Cent	
3391	0.58	0.3	None	None					
3392	Trace	Trace							
3393	0.02	0.1							
3394	0.06	0.2							
3395	0.06	0.1	None						
3396	0.06	0.2	None						
3397	Trace	Trace	None	None					
3398	0.08	0.1							
3399	Trace	Trace							

*Gold not deducted

Charges $ 46.50

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-6004

PHONE 406/442-5770
46 SOUTH MAIN ST.
P. O. BOX 527
HELENA, MONTANA 59601

Helena, Montana, JUN 9 - 1966

ASSAYED FOR
Jessie Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
3385	0.24	0.2	Trace	None	None				

*Gold not determined

Charges $11.00

GOODALL BROS.
By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1888

ASSAYERS

ASSAYER MANAGER

PROPER ADDRESS:
40 SOUTH MAIN
P. O. BOX 997
HELENA, MONTANA, U.S.A.

Helena, Montana, JUL 1 2 [illegible]

HAND SAMPLE

Number	Gold Oz. per Ton	Silver Oz. per Ton	Wet Lead per Cent	Copper per Cent	Zinc per Cent	[illegible] per Cent	[illegible]	[illegible]	[illegible]
3376	0.04	Trace							
3377	0.04	Trace							
3378	0.04	Trace							
3379	0.46	2.2	None.	None	None				
3380	0.02	Trace							
3381	0.02	Trace							
3382	0.64	Trace							
3383	Trace	Trace							

GOODALL BROS.

Horace G[illegible]

GOODALL BROTHERS

ESTABLISHED 1900

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0604

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 557
HELENA, MONTANA 59601

Helena, Montana, MAY 3 4 1966

HAND SAMPLE

ASSAYED FOR

Jayne Mining Co.

DESCRIPTION	GOLD OZ. PER TON	SILVER OZ. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
3374	0.12	1.5	1.2		None				
3375	0.07	Trace	None		None				

*Gold not detected

Charges $ 17.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1900

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0006

PHONE 406/442-0770
46 SOUTH MAIN ST.
P. O. BOX 557
HELENA, MONTANA 59601

Helena, Montana, MAY 1 2 1986

ASSAYED FOR

James Hindelz Co.

HAND SAMPLE

DESCRIPTION	GOLD Oz. Per Ton	SILVER Oz. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	INSOL. Per Cent	Per Cent	Per Cent	
3345	0.04	Trace							
6	0.36	1.1							
7	0.02	Trace							
8	Trace	Trace							
9	0.02	Trace							
58	Trace	Trace							
9	Trace	0.1							
60	Trace	Trace							
1	0.01	Trace							
2	0.10	0.1							
3	0.08	Trace							

*Will not detected

Charges $38.50

GOODALL BROS.

By Horace Hand

ATTORNEYS

MAIN ST.

MONTANA 59601

GOODALL BROTHERS

ESTABLISHED 1908

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, MAY 6 - 1966

ASSAYED FOR

Janus Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS PER TON	SILVER OZS PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
3331	Trace	Trace							
3	Trace	Trace							
4	0.26	0.4							
5	Trace	Trace							
6	0.02	Trace							
7	0.06	0.2							
8	Trace	Trace							
9	Trace	0.2							
40	0.24	0.2							
1	Trace	Trace							

*Gold not deducted

Charges $ 35.00

GOODALL BROS.

By Horace Hand

XERO COPY XERO COPY XERO COPY XERO COPY

GOODALL BROTHERS

ESTABLISHED 1909 **ASSAYERS**

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0696

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, APR 1 6 1966

ASSAYED FOR
Janus Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT
3364	Trace	Trace						
5	Trace	Trace						
6	0.24	0.2						
7	Trace	Trace	None	None	Sent out for Spec. Exam			
8	Trace	0.1		None				
9	Trace	Trace						
70	0.20	Trace						
1	Trace	Trace						
2	Trace	Trace	None	None	0.1	Sent out for Spec. Exam.		
3	0.03	Trace						

*Gold not deducted

Charges $71.50

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana APR 7 - 1968

ASSAYED FOR
James Mining Co.

Hand Sample ☒
Control Assay ☐
Umpire Assay ☐

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
776	Trace	Trace							
7	Repeating								
8	Trace	Trace							
9	Trace	Trace		None					
80	Trace	Trace							
1	Trace	Trace							
2	Trace	Trace							
3	Trace	Trace							
4	Trace	Trace							
5	Trace	Trace							
6	Trace	Trace							
7	Trace	Trace		None					
8	Trace	Trace		None					
9	0.12	Trace							
90	Trace	Trace							
1	Trace	Trace							

GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 406/442-0604

PHONE 406/442-3770
46 SOUTH MAIN ST.
P. O. BOX 537
HELENA, MONTANA 59601

Helena, Montana, MAR 2 1 1966

ASSAYED FOR

Jarma Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD Oz. PER TON	SILVER Oz. PER TON	Pt ~~COPPER PER CENT~~ Oz/Ton	Ni ~~ZINC PER CENT~~ PER CENT	WO_3 ~~LEAD PER CENT~~ PER CENT	INSOL. PER CENT	PER CENT	PER CENT	PER CENT
736	0.76	0.5	Nil	None					
737	0.40	Trace	Nil	None					
738	0.40	0.4	Nil	None					
739	2944.49	1330.9							
740	179.13	18.1	18.69	None					
741	23.39	3.3	0.94						
742	28.57	5.5	0.32						
743	6.96	1.9			None				
744	Trace	Trace	Nil	None					

*Gold not deducted

Charges $ 98.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, AUG 3 1 1965

ASSAYED FOR

Jamus Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	INSOL. Per Cent	Per Cent	Per Cent	
714	Trace	0.4		17.4					
715	Trace	Trace		5.0					
716	Trace	Trace							
717	Trace	Trace		Trace					
718	Trace	Trace							
719	Trace	Trace		Trace					
720	Trace	Trace							
723	Trace	Trace							
724	Trace	Trace							

*Gold not deducted

Charges $ 35.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-6606

PHONE 442-3779
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, AUG 24 1965

ASSAYED FOR

Jamus Mining Co.

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
712	Trace	0.2		1.71					
713	Trace	0.2		None					

*Gold not deducted

Charges $ 10.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1900

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0504

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 997

Helena, Montana, AUG 10 1965

ASSAYED FOR

A. J. Ketches

HAND SAMPLE

DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	INSOL. Per Cent	Per Cent	Per Cent	
706	0.02	Trace		1.0					
707	Trace	Trace							
708	0.06	Trace							
709	Trace	Trace							
710	Trace	Trace							
711	0.04	1.4							

*Gold not deducted

Charges $ 20.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1900 — ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-6570

PHONE 442-9770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana JUN 23 1965

ASSAYED FOR [redacted]

A. J. Tetzlaw

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	NICKEL PER CENT	PER CENT	PER CENT
431	0.08	0.7						
2	0.07	0.4						
3	0.26	1.0						
4	0.32	2.5						
5	0.14	1.6						
6	1.88	2.8						
7	0.06	Trace						
8	Trace	0.1						
9	0.16	0.7						
40	0.08	0.6						
1	Trace	Trace						
2	Trace	Trace						
3	Trace	0.3						
4	0.08	0.6						
5	0.20	2.2						
6	0.13	0.4						
7	0.08	0.8						
8	Trace	0.2						
9	Trace	0.2						
50	Trace	0.2						
701	Trace	0.2						
2	Trace	0.3						
3	Trace	0.3						
4	Trace	0.2						
5	0.05	0.9						

Charges $25.00

Goodall Brothers

by Horace Hand

GOODALL BROTHERS

ESTABLISHED 1908 **ASSAYERS**

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 587

Helena, Montana, MAY 19 1965

ASSAYED FOR

A. J. Katches

HAND SAMPLE

DESCRIPTION		GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
Nelly Bly	TR-55	Trace	Trace							
	-56	Trace	0.2							
	-57	0.12	0.5							
	-58	0.01	0.2							
	-59	0.07	0.2							
	-60	Trace	0.2							
	-61	0.08	0.2							
	-62	0.10	0.1							
	T2-1	0.08	0.6							

*Gold not deducted

Charges $ 27.00

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana APR 30 1965

ASSAYED FOR

A. J. Katches

Hand Sample ☒
Control Assay ☐
Umpire Assay ☐

DESCRIPTION		GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	INSOL. Per Cent	Per Cent	Per Cent
Nelly Bly	TR-1	Trace	Trace						
	-2	Trace	0.2						
	-3	Trace	0.2						
	-4	Trace	0.2						
	-5	Trace	0.1						
	-6	Trace	0.2						
	-10	0.01	0.2						
	-11	Trace	0.1						
	-12	0.02	Trace						
	-13	Trace	0.1						
	-14	Trace	0.2						
	-15	Trace	Trace						
	-16	Trace	0.1						
	-17	Trace	0.2						
	-18	Trace	0.2						
	-19	Trace	0.2						
	-20	Trace	0.2						
	-50	Trace	0.1						
	-51	0.12	0.1						
	-52	0.16	0.5						
	-100	Trace	0.2						
	T-1, V-1	0.14	0.9						

Charges $66.00 87.00 Paid

GOODALL BROTHERS

by Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, APR 28 1965

ASSAYED FOR

A. J. Katches

HAND SAMPLE

DESCRIPTION			GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT
Nellie Bly	Shaft "A"	D-1	0.02	0.3						
	"B"	D-2	0.04	0.4						
	"C"	D-3	0.03	0.6						
	Tunnel #2	D-4	0.03	0.7						
	Shaft "C"	D-5	0.08	0.8						
		D-6	0.52	6.5						
	Shaft "B"	V-1	5.74	94.9						

*Gold not deducted

GOODALL BROS.

By Horace Hand

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, JAN 19 1965

ASSAYED FOR

A. J. Katches

HAND SAMPLE

DESCRIPTION	GOLD Ozs. PER TON	SILVER Ozs. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
NB-1	0.06	0.8							
-2	0.30	1.3							
P-45	0.23	1.6							
-46	Trace	Trace							

*Gold not deducted

GOODALL BROS.

By [illegible]

GOODALL BROTHERS

ESTABLISHED 1908

ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, NOV 13 1964

ASSAYED FOR

A. J. Katches

HAND SAMPLE

DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	INSOL. Per Cent	Per Cent	Per Cent	
Perry	0.08	1.4					Silica		
P-40	0.50	2.9					91.32		
-41	0.03	0.6							

*Gold not deducted

Charges $13.50

GOODALL BROS.

By [illegible]

GOODALL BROTHERS

ESTABLISHED 1909 **ASSAYERS**

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana OCT 16 1964

ASSAYED FOR

A. J. Katches

Hand Sample ☑
Control Assay ☐
Umpire Assay ☐

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT
P-20	0.03	0.8						
-21	Trace	0.2						
-22	0.12	0.9						
-23	0.16	0.9						
-25	Trace	Trace						
-26	0.01	Trace						
-30	0.04	0.4						
-31	0.04	0.1						
-32	Trace	Trace						
-34	Trace	0.1						
-35	Trace	Trace						

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana, OCT 8 - 1964

ASSAYED FOR

A. J. Katches

HAND SAMPLE

DESCRIPTION		GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
Pahasapa	1	Trace	Trace							
	2	0.11	2.3							
	3	Trace	0.4							
	4	Trace	Trace							
	5	Trace	0.1							
	6	Trace	0.2							
	7	Trace	0.2							
	8	Trace	0.1							

*Gold not deducted

Charges $ 24.00

GOODALL BROS.

By

GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana SEP 24 1964

ASSAYED FOR

A. J. Katches

HAND SAMPLE

DESCRIPTION	GOLD OZS PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT
Winetka 1	3.14	22.9						
MCG-OC #1	0.88	0.8						
-INC #1	0.30	30.3						
-T 1	Trace	0.3						
-T2	0.16	0.3						
-P2FF	0.36	1.4						
-P3F	0.18	0.9						

*Gold not deducted

Charges $21.00 Paid

GOODALL BROS.

By

GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana SEP 16 1964

ASSAYED FOR

HAND SAMPLE

A. J. Katches

DESCRIPTION	GOLD Ozs. PER TON	SILVER Ozs. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
MCG-P1	0.09	0.3							
-P2F	0.18	1.1							
-P2L	0.07	0.4							
-P3	0.16	0.9							
-P4	Trace	0.2							
-P5	0.05	0.4							
S2-1	Trace	0.3							
-2	0.03	0.2							
-3	Trace	0.2							
S3-12	1.28	19.0							
-13	0.10	0.5							

*Gold not deducted

Charges $33.00 Paid

GOODALL BROS.

By

GOODALL BROTHERS

ESTABLISHED 1909

ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-0696

PHONE 442-3770
46 SOUTH MAIN ST.
P.O. BOX 537

Helena, Montana AUG 31 1964

ASSAYED FOR

A. J. Katchas

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
T-4	1.82	198.8							
S3-6	Trace	0.8							
7	Trace	Trace							
8	Trace	Trace							
9	Trace	Trace							
10	Trace	0.1							
11	Trace	Trace							

*Gold not deducted

Charges $ 21.00 Paid

GOODALL BROS.

By [signature]

GOODALL BROTHERS

ESTABLISHED 1909 — ASSAYERS

HORACE HAND, OWNER-MANAGER
RES. PHONE 442-6696

PHONE 442-3770
46 SOUTH MAIN ST.
P. O. BOX 537

Helena, Montana AUG 20 1964

ASSAYED FOR

J. Katches

HAND SAMPLE

DESCRIPTION	GOLD OZS. PER TON	SILVER OZS. PER TON	WET LEAD PER CENT	COPPER PER CENT	ZINC PER CENT	INSOL. PER CENT	PER CENT	PER CENT	
S3-#3	Trace	0.1							
4	0.01	0.1							
5	Trace	0.3							
T-#1	Trace	0.3							
2	Trace	0.4							
3	Trace	0.3							
T2-#1	0.26	0.8							
MCG-#1	0.06	1.6							
2	0.38	2.1							
3	0.08	0.6							

*Gold not deducted

Charges $ 30.00 Paid

GOODALL BROS.

By [illegible]

JANUS MINING COMPANY

VIRGINIA CITY, MONTANA

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 23 1965
INITIALS

November 18, 1965

Director of Office of Minerals Exploration
Department of the Interior
Washington, D. C.

Dear Sir:

I respectfully submit the four attached applications of Janus Mining Company, a corporation, organized under the laws of Montana, for financial assistance in exploration for mineral reserves of silver and gold.

We feel that we have properties worthy of exploration in accordance with the Government policy. We have had the assistance of a highly qualified geologist and an experienced mining engineer and mine development and production superintendent. These men, without qualification, feel that our proposed exploration program will develop significant silver and gold ore deposits which can be profitably mined.

The mineral deposits which we seek to explore with Government financial assistance are located in an area containing a great many mineralized structures. The development as proposed in our application will undoubtedly stimulate development of part of the adjoining region and should further the Government's objective in granting mineral exploration loans.

We would appreciate immediate consideration and approval.

Yours very truly,

A. J. Katches

A. J. Katches

AJK/m

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APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

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APPENDIX

1. Refusal of loans by Financial Institutions
2. Lease of patented claims in Nellie Bly group
3. Lease of patented claims in Janus Group

POCKET ENVELOPE

1. Maps

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 23 1965
INITIALS | CODE

MME Form 40
Jan. 65

Budget Bureau No. 42-R1368
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85-701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

JANUS MINING COMPANY
Virginia City, Montana

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6523

DATE RECEIVED: 11/23/65

REGION: I

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED: Montana

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Alvin B. Seibert,	St. Louis, Missouri,	President
A. J. Katches,	Virginia City, Montana,	Vice President
Fred W. Hoffman,	Riverton, Wyoming,	Secretary-Treas.
A. J. Katches,	Virginia City, Montana,	General Manager
R. G. Ingersoll, Jr.,	Butte, Montana,	Geologist
Walter H. Myers,	Virginia City, Montana,	Mine Supt.
H. A. Bolinger, Jr.,	Bozeman, Montana,	Attorney
John J. Kelly,	Bozeman, Montana,	C.P.A.

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Silver and gold

ESTIMATED COST OF PROJECT: $ 120,142.00

PROPERTY NAME	LOCATION COUNTY	STATE
Terra Cotta Group	Madison	Montana

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

November 18, 1965
DATED

Alvin B. Seibert
BY *(Signature)*

President
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C

1. FINANCIAL ELIGIBILITY:

(a) Janus Mining Company has discussed the subject of a loan with the First National Bank in Bozeman, Bozeman, Montana, our bank of account; Security Bank & Trust Company of Bozeman, Bozeman, Montana; the Bank of St. Louis, Security Trust Company, Mercantile Trust Company, all of St. Louis, Missouri, and we have been advised in general that this type of financing mainly pertaining to mineral exploration for mineral reserves would not be granted. True copies of the correspondence to the relative banks are enclosed in the appendix.

(b) Not applicable.

(c) That the officers of the company agree to finance their share of the exploration costs, and assignments of royalty given and agreed to be given to various and sundry persons on all properties owned by the company and not held under lease to the extent of not to exceed 7% of the gross smelter returns. The assignments of this royalty have been given to secure operating capital and moneys to finance the company's participation for the government loan.

2. APPLICANT'S RIGHTS IN LAND:

(a) and (b)

COMMON NAME OF GROUP - NELLIE BLY

Nellie Bly, Alder Fraction, Prescot and Malta Lodes designated by the Surveyor General as Survey No. 9722 embracing a portion of Township 7 South, Range 3 West, M.P.M., in the Highland Unorganized Mining District, for a more particular description of which reference is made to page 115, Book 145, Records of Madison County, Montana.

The above claim is under lease dated June 9, 1965, from A. J. Katches, Lessor, to Janus Mining Company, Lessee. Minimum royalty - $1,000.00 paid in advance to June 9, 1966. Lessor to pay 10% net smelter returns after deducting payment of minimum royalty. True copy of the lease enclosed in the appendix.

COMMON NAME OF GROUP - JANUS

Highland Lode (Patented) Mining Claim, designated by the Surveyor General as Lot No. 7295, embracing a portion of Township 7 South, Range 3 West, M.P.M., Highland Unorganized Mining District, Madison County, Montana, and containing 20 acres, more or less, for a more particular description of which reference is made to page 635, Book 64, Records of Madison County, Montana.

The above patented claim held under lease dated August 9, 1965, between Lowell M. Paige, et al, Lessors, to Janus Mining Company, Lessee. Minimum royalty paid in advance - $300.00 a year to August 9, 1966, and annually thereafter. Royalty $12\frac{1}{2}$% net smelter returns after deducting minimum royalty. True copy of lease enclosed in the appendix.

The following unpatented mining claims are owned by Janus Mining Company upon which all location and annual representation work has been done as required to September 1, 1965, and additional work, labor and improvements and benefit has been done in connection with all of the claims and is being performed continuously at this time.

COMMON NAME OF GROUP - JANUS

The unpatented lode mining claims situated in Section 1, Township 7 South, Range 3 West, M.P.M., and further described in the respective Books and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Janus Lode Mining Claim, Book 211 of Locations, page 11;
Janus No. 1 Mining Claim, Book 211 of Locations, page 13;
Janus No. 2 Mining Claim, Book 211 of Locations, page 15;
Janus No. 3 Mining Claim, Book 211 of Locations, page 17;
Janus No. 4 Mining Claim, Book 211 Of Locations, page 19;
Giltedge Mining Claim, Book 211 of Locations, page 297;
Giltedge No. 1 Mining Claim, Book 211 of Locations, page 299;
Giltedge No. 2 Mining Claim, Book 211 of Locations, page 301;
Giltedge No. 3 Mining Claim, Book 211 of Locations, page 423;

COMMON NAME OF GROUP - NELLIE BLY

The unpatented lode mining claim situated in Township 7 South, Range 3 West, M.P.M., and further described in the respective Book and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Desiree Lode Mining Claim, Book 211 of Locations, page 35.

COMMON NAME OF GROUP - TERRA COTTA *

The unpatented lode mining claims all situated in Township 7 South, Range 3 West, M.P.M., and further described in the respective Books and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Silver Cable Lode Mining Claim, Book 211 of Locations, page 23;
Silver Cable No. 1 Lode Mining Claim, Book 211 of Locations, page 25;
Terra Cotta Lode Mining Claim, Book 211 of Locations, page 31;
Terra Cotta No. 1 Lode Mining Claim, Book 211 of Locations, page 33;

COMMON NAME OF GROUP - SIDEBOARD

The unpatented lode mining claims all situated in Township 7 South, Range 3 West, M.P.M., and further described in the respective Books and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Sideboard Lode Mining Claim, Book 211 of Locations, page 27;
Sideboard No. 1 Lode Mining Claim, Book 211 of Locations, page 29.

COMMON NAME OF GROUP - LATCHSTRING

The unpatented lode mining claims all situated in Township 7 South, Range 3 West, M.P.M., and further described in the respective Books and pages in the office of the County Clerk and Recorder of Madison County, Montana, as follows:

Latchstring Mining Claim, Book 211 of Locations, page 321;
Latchstring No. 1 Mining Claim, Book 211 of Locations, page 323;
Latchstring No. 2 Mining Claim, Book 211 of Locations, page 419;
Latchstring No. 3 Mining Claim, Book 211 of Locations, page 421;
Greybache Mining Claim, Book 211 of Locations, page 413;
Greybache No. 1 Mining Claim, Book 211 of Locations, page 415;
Greybache No. 2 Mining Claim, Book 211 of Locations, page 417;

PATENTED PLACER MINING CLAIMS

Lot 46, Mining Survey No. 515, Mineral Entry No. 397, Placer;
The South ten (10) acres of Mining Survey No. 517, Mineral Entry No. 460, Placer;
Lot 55, Mining Survey No. 1267, Mineral Entry No. 1001, Hungry Hollow Placer;
Mineral Entry No. 3188

NOTE: Map of Alder Gulch Area enclosed in pocket for further description of location of properties.

* This is property applicable to this application.

(c) All of the properties above described are free and clear of any liens or encumbrances except for assignments of royalty given and agreed to be given to various and sundry persons on all properties owned by the company and not held under lease to the extent of not to exceed 7% of the gross smelter returns. The assignments of this royalty has been given to secure operating capital and moneys to finance the company's participation with a government loan.

3. PHYSICAL DESCRIPTION:

(a) No work has been done on Janus Mining Company property. Northeast of the Terra Cotta No. 1 claim and along the strike of the Terra Cotta vein, some trenches and pits and several adits and crosscuts have cut the vein at shallow depth. Immediately to the Southeast of the Terra Cotta Lode claim and parallel to the Terra Cotta vein is the Oro Cache vein. (See plan map) This heavily mineralized structure was a big producer in the Alder Gulch mining region, with a total production estimated to value $500,000. A series of adits was driven on the vein up the slope of the hill to exploit this narrow, high-grade vein. The bulk of Oro Cache production came in the 17 years between 1864 and 1880, inclusive, so records of tonnage and grade are

not available.

(b) None

(c) No ore has been produced from the Terra Cotta vein on Janus Mining Company property. No production figures are available on either the shallow workings to the northeast or the Oro Cache workings to the southeast other than the estimate of a half million dollar value on the Oro Cache production.

(d) Ore reserves on Janus Mining Company property must be estimated from mining, exploration, or production figures from properties surrounding the Terra Cotta Group of claims. The width of the Oro Cache vein was narrow, about four feet. The high value placed on the tonnage from the mine would indicate a fairly good ratio of ore to waste, possibly 1:2.

Proposed exploration by the Janus Mining Company on the Terra Cotta claims entails crosscutting 300 feet to the vein, then drifting for 1500 feet on the structure. It is estimated that one-third of this drift will be in ore and that a block 500 feet long, 500 feet high, and four feet wide will be developed. Using a factor of 12 cubic feet to the ton, this block will yield 83,333 tons of ore. The average grade of ore produced in the Virginia City mining district from 1901 to 1935 was 6.81 ounces of silver per ton and 0.41 ounces of gold per ton, a ratio of over 16 silver to 1 gold.

Using this average for Janus Mining Company estimated reserves, the value of 83,333 tons of ore is $1,929,992 (silver - $1.293 per ounce; gold - $35.00 per ounce). On the basis of estimated tonnage and grade, 567,498 ounces of silver could be in reserve.

Not considered in the gross calculations is the value of the silica in the ore. Most ore from this mining region is mined from quartz veins and shipped as siliceous silver-gold ore. A premium is paid for high silica content.

(e) The geologic setting of this group of claims is the Pre-Cambrian Cherry Creek series which consists of quartz-feldspar gneiss, quartz-mica schist, crystalline limestone, quartzite, and hornblende-biotite schist. Fissure veins in the general Alder Gulch area are of two types: lenses of quartz in strong, gouge-filled fissures which, when closely spaced, form large ore bodies. These lenses pinch and swell and are generally from zero to ten feet wide, although zones 40 feet wide are known. The second type of fissure vein is a narrow, tabular type of quartz-filled tension fracture, three to five feet in width--although ten feet is known. The Terra Cotta vein has strong clays defining the structure and intermittent quartz lenses. The mineralogy of the vein is probably free silver and gold plus sulfides of these metals.

(f) Underground exploration of the Terra Cotta Group of claims of the Janus Mining Company should reveal substantial reserves of siliceous silver-gold ore. The enclosed map of the Alder Gulch region shows numerous ore-bearing structures extending for thousands of feet, exploited by a series of adjoining claims. The Terra Cotta structure is similar in all respects to the other veins paralleling Alder Gulch and should, through deep development, show persistence of structure and strong mineralization.

(g) Three sets of this application and necessary maps are submitted.

4. ACCESSIBILITY OF PROPERTY:

(a) Mr. Walter H. Myers, Mine Superintendent, Virginia City, Montana, and A. J. Katches, Vice President and Manager, Virginia City, Montana, will aid OME representative who may examine the property. The property is accessible by good road and is located in Alder Gulch approximately three miles south of Virginia City, Montana.

(b) The shipping point on the Northern Pacific Railway Company is Alder, Montana, a distance of approximately nine miles on a hard-surface road from Virginia City, Montana. The quoted cost for shipping from Alder, Montana, to Anaconda, Montana, is $2.70 per ton for the type of ore to be mined at an average value of less than $50.00 per ton.

5. EXPLORATION WORK:

(a) The proposed exploration of the Terra Cotta Group of claims consists of a crosscut 300 feet long driven in a northeasterly direction to cut the Terra Cotta vein, and a drift 1500 feet long to explore the structure for potential ore shoots (see enclosed plan map and long section of the vein). The plan map shows the portal of the adit in relation to the claim corners of the property owned by the Janus Mining Company. Size of the adit will be eight feet by seven feet.

(b) All roads have been constructed and are serviceable, and are being maintained by the company.

(c) Should an OME contract be completed, work will start immediately and as soon as the necessary equipment is installed, which should not take more than 30 days. We estimate that 12 foot advance per day will be made by working two shifts and drilling and blasting a six foot round on each shift. The 1800 feet of proposed development work will be completed in approximately 180 working days, or approximately 7 months.

6. EXPERIENCE:

Experience and qualifications of A. J. Katches, Vice President and General Manager, are:

Minneapolis Honeywell Corp., Brown Instrument Division - Special training - title: Electronics Engineer - design, application, and operations industrial controls - steel mill and chemical plant operations.

Graco Corp., - lubricating equipment manufacturing - 425 employees - title: Ass't Chief Engineer - design and manufacturing.

Scott-Atwater Mfg Co., - OB motors and metal products manufacturing - 1600 employees - title: Supt of Mfg and metals fabrication engineer.

U.S.A., Frankford Arsenal - design and manufacturing military ammunition - 1 of 5 men selected from industry for special training manufacturing military ammunition - planning and operations ammunition plants event war - title: Manufacturing Military Ammunition Expert.

Twin Cities Ordnance Plant - small arms ammunition mfg - 30, 45, and 50 cal. - title: Supt of Mfg - Chief Engineer, development 50 cal steel cartridge case - member various War Dept small arms ammunition divisions - TCOP 27,000 employees.

U.S.A. Shell and Bomb Loading Plant - powder manufacturing and loading - title: Supt of Manufacturing - 1900 employees.

Brown & Bigelow Corp., War Production Div., - mfg bomb fuses - 2100 employees Title: Supt of Manufacturing.

U.S. Steel Corp., American Steel & Wire Division, mfg steel - title: Divisionl Eng. - confidential engineering reports re: steel mill operations to top management, 13 plants - U.S. Steel negotiator CIO Union contract.

After 1948 has served as mining engineer for various companies as an employee, part owner or officer including:

Mid-Continent Exploration Company - partner and chief engineer.

Great Western Chemical Mining Corp - Director and President.

Spa Laboratories Foundation - Director of Mining & Manufacturing.

Has been familiar with the properties involved in the application several years prior to 1963, and has devoted time exclusively to study and possible development of properties from fall of 1963.

Experience and qualifications of Walter H. Myers, Mine Superintendent, are:

Worked for Anaconda Company as mining engineer for 18 years commencing 1925. After 1944, employed as general manager of U.S. Grant Mining Company, Alameda Mine, Bamboo Chief Mine, and Easton-Pacific Mine, near Virginia City, Montana; Was a member of the American Institute of Mining and Metallurgical Engineers and Montana Society of Engineers until 1950.

7. ESTIMATE OF COSTS:

	Detail	SUBJECT TO OME Participation
(a) Independent Contractors	$ None	$ None
(b) Personal Services Supervision)	)	

7. Estimate of Costs (continued)

SUBJECT TO OME

	Detail $	Participation
Consultants) Geological) Engineering) $750.00 per month	)	
4 Miners at $21.00 per day, $31.50 for sixth day	)	
2 Motorman and Dump Workers at $21.00 per day $31.50 for sixth day	)	
Employment would be continuous and the services are available	)	Note 1*

(c) Operating Materials and Supplies

Railroad:	
Rail - 28 Ton at 300.00	8,400.00
Track Bolts - 400 pounds at 30.94 cwt	123.76
Track Spikes - 600 pounds at 21.23 cwt	127.38
Track Splices - 280 pair at 1.60	448.00
Tools:	
Pipe Wrenches 24" - 6 at 8.75	52.50
Pipe Wrenches 18" - 6 at 5.55	33.30
Mine axes - 8 at 7.00	56.00
Mine Saws - 2 at 12.50	25.00
Mine Picks - 12 at 3.92	47.04
Pinch Bars - 4 at 3.50	14.00
Shovels - 12 at 4.47	53.64
Bit Knocker - 2 at 8.63	17.26
Drill Bits - 360 at 4.80	1,728.00
Explosives:	
Powder - 9 Ton at 300.00	2,700.00
Blasting Caps - 72 boxes at 3.30	237.60
Fuse - 28 (3,000 feet) rolls at 46.65	1,306.20
Supplies and Timber:	
Nails - 200 pounds 60 d at 13.22 cwt	26.44
Nails - 200 pounds 40 d at 13.22 cwt	26.44
Water Tank	30.00
Drill Steel - 120 (6 foot) pieces at 18.25	2,190.00
Timber - 59,000 board feet at 65.00 per M	3,835.00
Hose, Tubing, Pipe and Fittings:	

7. Estimate of costs (continued)

		Detail	SUBJECT TO OME Participation
Air Hose - 300 feet at 5/49	$	164.70	
Water Hose - 300 feet at 2.456		73.68	
Knox Valves - 10 at 4.35		43.50	
Ventilation Tubing - 2100 feet at 1.35		2,835.00	
Air Speed Connections - 12 at .98		11.76	
Dixon Hose Couplings 1" at 12 at 2.94		35.28	
Dixon Hose Couplings ½" - 12 at 2.22		26.64	
Pipe 2" Iron - 1800 feet at 55.13 per 100 ft		992.34	
Pipe 1" Iron - 1800 feet at 25.52 per 100 ft		459.36	
		26,119.82	Note 1*

(d) Operating Equipment

Compressor - new electric Atlas Capco	11,000.00	11,000.00
Air Receiver - used	150.00	-
Tram Motor - battery operated	23,680.00	23,680.00
Eimco Rocker Shovel	4,250.00	4,250.00
Mine Cars - 3 Grandby 57 cubic foot at 400.00	1,200.00	1,200.00
Blower Fan - TM8	790.00	-
Rock Drill - JR 38 C Jackleg	1,280.00	1,280.00
Chain Saw	154.00	-
Mine Lamps - 12 MSA	448.00	-
Timber Truck	400.00	-
Rail Bender	285.00	-
Dump Block	250.00	-
	60) 43,887.00	Note 2 **
	1860) 7314.50	

(e) Initial Rehabilitation and Repairs — ~~None~~ 4.05/yd — None

(f) New Buildings, Fixtures, Installations

The property will have the following facilities in which OME participation is not being required:

Compressor building
Tool house
Change house
Timber and truck storage
Ore bin
Toilet facility
Timber shop

7. Estimate of costs (continued)

SUBJECT TO OME

		Detail	Participation
(g) Miscellaneous	$		
Repairs will consist of replacement of worn parts on rock drill, replacement of cables, chains, and valve springs for Eimco shovel, Valves and other parts for compressor and repairs on truck.	Estimate	1,125.00	Note 1*
Accounting and payroll taxes are included in estimated cost per foot.			
Estimated Costs Per foot.			
Labor		13.60	
Supervision, Geology and Engineering		3.00	
Payroll Taxes and industrial accident insurance		2.30	
Railroad - 40 pound rails			
Rails	4.20		
Track Spikes	.30		
Track Bolts	.15		
Track Splices	.15		
Ties	.30	5.10	
Air line (2") and Water Line (1")		.97	
Explosives			
Powder	3.50		
Blasting Caps	.06		
Fuse	.28	3.84	
Compressed Air		1.15	
Ventilation Tubing		1.56	
Fuel (Fan Motor)		.10	
Drill Steel		2.64	
Drill Bits		1.95	
Repairs (Compressor, Rock Drill, Shovel)		.26	
Pipe Fittings		.12	
Waste Dump upkeep		.25	
Water Supply		.10	
Accounting		1.40	
Truck Expense		.40	
Miscellaneous		.50	
Cost Per Foot Untimbered		39.24	
Timber per foot		9.00	
Cost Per Foot Timbered		48.24	
900 feet underground untimbered at 39.24		35,316.00	35,316.00
900 feet underground timbered at 48.24		43,416.00	43,416.00
			78,732.00
TOTAL			$ 120,142.00

7. Estimate of Costs (continued)

* Note 1:

Cost included in computation of estimated cost per foot.

** Note 2:

Operating equipment - the value of major items of equipment which are included for OME PARTICIPATION is equal to $23.00 per foot on this property.

APPENDIX

JANUS MINING COMPANY
Virginia City, Montana

October 29, 1965

First National Bank in Bozeman
Bozeman, Montana

Attention: Mr. C. L. Newland

Dear Mr. Newland:

I would appreciate an acknowledgment and reply relative to a loan to the Janus Mining Company in the amount of $75,000.00, which funds are needed to carry on certain mineral exploration programs as discussed in detail with you on several occasions.

I will appreciate an early reply.

Yours very truly,

JANUS MINING COMPANY

By A. J. Katches
A. J. Katches, Vice President and
General Manager.

AJK/clt

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1ST NATIONAL BANK
IN BOZEMAN
AFFILIATED WITH FIRST BANK STOCK CORPORATION

Bozeman, Montana

C. L. NEWLAND
CASHIER

November 15, 1965

A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: Loan Request

Dear Mr. Katches:

In regard to our conversation of July 23rd, this letter is to inform you that our bank does not participate in the type of financing which we were visiting about. This is mainly financing pertaining to exploration for mineral reserves or speculation mining interest.

The $75,000.00 loan request will have to be refused because it is not our bank policy to make such loans. Also it might be well to mention at this time that we feel that with the high loan demand we must take care of our normal customers who have operated in the Valley for a number of years.

I regret the refusal of your loan at this time but as stated above it is not our policy to make loans in the mining or exploration for mineral fields.

Yours very truly,

C. L. Newland

C. L. Newland
Cashier

CLN/ca

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JANUS MINING COMPANY
Virginia City, Montana

October 29, 1965

Security Bank & Trust Company
of Bozeman
Bozeman, Montana

Attention: Mr. Philip R. Sandquist

Dear Mr. Sandquist:

I would appreciate an acknowledgment and reply relative to a loan to the Janus Mining Company in the amount of $75,000.00, which funds are needed to carry on certain mineral exploration programs as discussed in detail with you on several occasions.

I will appreciate an early reply.

Yours very truly,

JANUS MINING COMPANY

By A. J. Katches
A. J. Katches, Vice President and
General Manager.

AJK/clt

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SECURITY BANK
& Trust Company • BOZEMAN, MONTANA
Phone 586-5466
PHIL SANDQUIST, Executive Vice President

November 16, 1965

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: Loan Request

Dear Mr. Katches:

In regard to your letter of October 29th, 1965, this letter is to inform you that our bank does not participate in financing pertaining to exploration for mineral reserves or speculation mining interest.

The $75,000.00 loan request will have to be refused because it is not our bank policy to make such loans.

I regret the refusal, but it is not our policy to make loans in the mining or exploration for mineral fields.

Yours very truly,

Philip R. Sandquist
Executive Vice President

PRS/rsb

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GArfield 1-1193

national
MATRIX SERVICE
408-14 N. 15TH STREET • ST. LOUIS 3, MO.

July 8, 1965

Mr. L. John Gable, Vice President
Security Trust Company
706 Locust Street
St. Louis, Missouri

The Janus Mining Company is interested in securing a loan of $140,000.00 for purposes of mineral exploration in the area of Virginia City, Montana. We are presenting detailed information of the properties covered by our leases.

Please give this application your immediate attention and advise me of your decision.

Yours truly,

Alvin B. Seibert

Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Mo. 63103

DIRECT PRESS • BAKED MATS • R. O. P. COLOR MATS • STEROTYPE • PLASTIC AND RUBBER PLATES • PROOFS • MAILING

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SECURITY TRUST COMPANY
EIGHTH AND LOCUST STREETS • SAINT LOUIS, MISSOURI 63177

July 13, 1965

Mr. Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Missouri 63103

Dear Mr. Seibert:

Thank you for presenting the Janus Mining Company loan request to Security Trust even though I am sorry to report that we are unable to grant the loan.

Hoping you might again have an opportunity to request our services and thanking you again for the above.

Sincerely,

L. John Gable
Vice President

LJG/mkf

Bank with Security...we like to serve you!

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GArfield 1-1193

national
MATRIX SERVICE
408-14 N. 15TH STREET • ST. LOUIS 3, MO.

July 8, 1965

Mr. E. E. Fincke, Vice President
Mercantile Trust Company
8th & Locust Streets
St. Louis, Missouri

The Janus Mining Company is interested in securing a loan of $140,000.00 for purposes of mineral exploration in the area of Virginia City, Montana. We are presenting detailed information of the properties covered by our leases.

Please give this application your immediate attention and advise me of your decision.

Yours truly,

Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Mo. 63103

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MERCANTILE TRUST COMPANY

NATIONAL ASSOCIATION

SAINT LOUIS, MISSOURI 63166, CENTRAL 1-3500

July 13, 1965

Mr. Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Missouri 63103

Dear Mr. Seibert:

After reviewing your application for a loan to the Janus Mining Company, we have concluded that we are not interested in favorably entertaining your request at this time.

You have our best wishes for success and perhaps we will have another opportunity to review your banking needs.

Sincerely,

E. E. Fincke
Vice President

EEF:fc

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GArfield 1-1193

national
MATRIX SERVICE
408-14 N. 15TH STREET • ST. LOUIS 3, MO.

July 8, 1965

Mr. Paul P. Keim, Vice President
Bank of St. Louis
Ninth & Washington Ave.
St. Louis, Missouri

The Janus Mining Company is interested in securing a loan of $140,000.00 for purposes of mineral exploration in the area of Virginia City, Montana. We are presenting detailed information of the properties covered by our leases.

Please give this application your immediate attention and advise me of your decision.

Yours truly,

Alvin B. Seibert

Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Mo. 63103

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Bank of St. Louis

NINTH AND WASHINGTON AVENUE

Saint Louis 66, Mo.

GARFIELD 1-1850

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PRES. RENARD LINOLEUM & RUG COMPANY
J. E. WILLIAMS, JR.
PRES. J. E. WILLIAMS CONST. CO.

July 13, 1965

Mr. Alvin B. Seibert
Janus Mining Company
410 North 15th Street
St. Louis, Missouri 63103

Dear Mr. Seibert:

After discussing the application of Janus Mining Company for a $140,000.00 loan for purposes of exploration in Virginia City, Montana, we regretfully report that we are unable to give such a loan favorable treatment.

We are indeed sorry that we cannot help you.

Yours truly,

Paul P. Keim
Vice President

PPK/ht

MEMBER FEDERAL
DEPOSIT INSURANCE
CORPORATION

30 Acres Free Parking At The Rear of the Bank

$10,000 MAXIMUM
INSURANCE FOR EACH
DEPOSITOR

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EXPLORATION AND MINING LEASE

THIS AGREEMENT, made and entered into this 9th day of June, 1965, by and between A. J. KATCHES, VIRGINIA CITY, MONTANA, hereinafter called the LESSOR (whether one or more), and JANUS MINING COMPANY, a MONTANA corporation, VIRGINIA CITY, MONTANA, hereinafter called the LESSEE, W I T N E S S E T H:

That for and in consideration of the sum of Three and 50/100 Dollars in hand paid, the receipt and sufficiency of which is hereby acknowledged by the LESSOR, and in further consideration of the agreements and provisions hereinafter contained, the LESSOR does hereby demise and lease for the purposes hereinafter set forth, to the LESSEE, the following described lands and premises, to-wit:

NELLIE BLY, ALDER FRACTION, PRESCOT AND MALTA LODES DESIGNATED BY THE SURVEYOR GENERAL AS SURVEY NO. 9722 EMBRACING A PORTION OF TOWNSHIP 7 SOUTH, RANGE 3 WEST, M. P. M. IN THE HIGHLAND UNORGANIZED MINING DISTRICT, FOR A MORE PARTICULAR DESCRIPTION OF WHICH REFERENCE IS MADE TO PAGE 115, BOOK 145, RECORDS OF MADISON COUNTY, MONTANA

to have and to hold the same exclusively with all rights and privileges thereunto appertaining, for the purpose of exploring for, developing, mining, removing, and selling any and all minerals and ores which the LESSEE may desire, together with the right of ingress and egress, and drilling, digging, and otherwise penetrating into the said lands, and building roads and erecting other improvements thereon as may be reasonable and necessary in such operations; all for the period of time hereinafter described, and all without liability on the LESSEE'S part for any surface damage caused thereby; provided, that the LESSEE shall seasonably commence operations hereunder and shall prosecute the same diligently and continuously, weather permitting.

EXPLORATION PERIOD. The period of this lease from the date hereof to and including June 9, 1965, shall be known as the exploration period, during which time the LESSEE shall have all the rights and privileges herein set forth, for the purpose of exploring said leased premises for minerals and ores other than oil, gas, or other hydrocarbons, by drilling, test pitting, trenching, blasting, shaft sinking, or such other geological methods of exploration as may be usual, customary, or practicable therein, including the removal of ores or minerals found, for purposes of testing or assaying or other research, but not for commercial purposes.

TERM OF LEASE. In the event the LESSEE determines, during the aforesaid exploration period, that minerals or ores exist in, upon, or under said premises in commercial quantity and quality, then this indenture shall continue in effect as a lease upon said premises, from year to year, provided the LESSEE shall pay to the LESSORS credit at the FIRST NATIONAL BANK at BOZEMAN, MONTANA, on or before the 9th day of June of each such year, in advance, a minimum annual advance royalty in the amount of One Thousand and no/100 Dollars ($1,000.00) which shall be credited against royalties accruing thereafter to the LESSOR for the year as to which such minimum advance royalty payment is made.

ROYALTY. For ores of copper, zinc, lead, silver, gold, or other metals produced from said premises and shipped to a mill or smelter, the LESSEE agrees to pay to the LESSOR a royalty of TEN PERCENT (10%) based upon the net mill or smelter returns of the ore mined hereunder; by "net mill or smelter returns" is meant the amount

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received for such ores from mill or smelter after deducting therefrom the cost of milling, smelting and freight or haulage charges from the mine to the mill or smelter; with payment of said royalty the LESSEE shall submit to the LESSOR a copy of their settlement sheet for each lot which settlement is made, and said settlement sheet and royalty check shall be paid within twenty days after receipt of payments by the LESSEE.

OPERATIONS. The LESSEE shall conduct all its operations hereunder in a skillful and proper manner and according to good mining practices, and, subject thereto, may use such methods of mining as to the whole or any part of the said premises as it finds most profitable and economical, or may, when deemed necessary or desirable, discontinue operations entirely hereunder; provided that all payments of taxes, royalties, and rentals have been made and that the LESSEE is not in default hereunder; provided, that in such event and upon termination hereof, the LESSEE agrees to deliver a good and sufficient and recordable release and termination hereof, releasing and returning unto the LESSOR all rights hereunder; provided further, that upon termination hereof the LESSEE shall have a reasonable time in which to remove its equipment, materials, and improvements from said premises.

TIME; ASSIGNMENTS. Mining development and production of the mineral resources of the said premises, timely performed, are of the essence hereof, subject to the terms and provisions herein set forth; and all terms and conditions hereof shall be binding alike upon the parties hereto, their respective successors, heirs, and assigns.

TITLE. The LESSOR agrees that he will, upon request of the LESSEE, furnish for examination an abstract of title to the said premises showing good and merchantable title in him, and to correct any defects therein which are required by the LESSEE, at his own expense; such abstract to be returned to the LESSOR upon completion of such examination; and the LESSOR hereby warrants that his title thereto is good and merchantable.

Hereby releasing and waiving all rights in and to said lands under the homestead exemption laws of the State of Montana.

WITNESS the hands of the parties, and to a duplicate hereof, the day and year first above set forth.

O. Fletcher
LESSOR

JANUS MINING COMPANY

By Alvin B. Seibert
President

Fred W. Hoffman
Secretary

LESSEE

(SEAL)

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STATE OF MONTANA
ss.
COUNTY OF MADISON

On this 9th day of JUNE, 1965, before me personally appeared A. J. KATCHES, to me known to be the person described in and who executed the foregoing Exploration and Mining Lease, and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and notarial seal, the day and year in this certificate first above set forth.

Mary Ellen Smith
Notary Public for the State of Montana.
Residing at Virginia City, Montana.
My commission expires June 12, 1965.

* * * * * * * * * * *

Acknowledgment To The Lease (Corporation)

STATE OF MONTANA
ss.
COUNTY OF GALLATIN

On this 11th day of JUNE, 1965, before me personally appeared ALVIN B. SEIBERT and FRED W. HOFFMAN, to me personally known, who, being by me duly sworn, did say that they are the President and Secretary of JANUS MINING COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed on behalf of said corporation by authority of its Board of Directors and said President and Secretary acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and notarial seal the day and year in this certificate first above set forth.

W. A. Bolinger Jr.
Notary Public for the State of Montana.
Residing at Bozeman, Montana.
My commission expires Jan 14, 1968

RECORDER'S OFFICE,
Madison County, Montana } ss.
Filed for record on the 26 day
of July A. D. 1965
at 9:30 o'clock A.M., and recorded
in Volume 205 of Mine
Records on Page 377
Records of Madison County, Montana
Pearl L. Crawford
County Recorder
By
Fee $ 6.00 Deputy

A. J. Katches
Va. city
M

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MINING LEASE

THIS AGREEMENT, made and entered into this 9th day of August, 1965, by and between LOWELL M. PAIGE and EVA PORTIA PAIGE, husband and wife, of Sheridan, Montana, and BOYNTON G. PAIGE and HELEN M. PAIGE, husband and wife, of Philipsburg, Montana, hereinafter called the LESSOR (whether one or more), and JANUS MINING COMPANY, a Montana corporation, of Virginia City, Montana, hereinafter called the LESSEE, WITNESSETH:

That for and in consideration of the sum of TWENTY-FIVE and NO/100 DOLLARS in hand paid, the receipt and sufficiency of which is hereby acknowledged by the LESSOR, and in further consideration of the agreements and provisions hereinafter contained, the LESSOR does hereby demise and lease for the purposes hereinafter set forth, to the LESSEE, the following described and designated patented mining claim, which is located and situated in the County of Madison, State of Montana, to-wit:

> HIGHLAND LODE (PATENTED) MINING CLAIM, designated by the Surveyor General as Lot No. 7295, embracing a portion of Township 7 South, Range 3 West, Montana Meridian, Highland Mining District, Madison County, Montana, and containing 20 acres, more or less,

to have and to hold the same exclusively with all rights and privileges thereunto appertaining, for the purpose of exploring for, developing, mining, removing, transporting and selling any and all minerals and ores which the LESSEE may desire, together with the right of ingress and egress, and drilling, digging, and otherwise penetrating into the said lands, and building roads and erecting other improvements thereon as may be reasonable and necessary in such operations; all for the period of time hereinafter described, and all without liability on the LESSEE'S part for any surface damage caused thereby; provided, that the LESSEE shall seasonably commence operations hereunder and shall prosecute the same diligently and continuously, weather permitting.

EXPLORATION PERIOD. The period of this lease from the date hereof to and including August 9, 1965, shall be known as the exploration period, during which time the LESSEE shall have all the rights and privileges herein set forth, for the purpose of exploring said leased premises for minerals and ores other than oil, gas, or other hydrocarbons, by drilling, test pitting, trenching, blasting, shaft sinking, or such other geological methods of exploration as may be usual, customary, or practicable therein, including the removal of ores or minerals found, for purposes of testing or assaying or other research, but not for commercial purposes.

TERM OF LEASE. In the event the LESSEE determines, during the aforesaid exploration period, that minerals or ores exist in, upon, or under said premises in commercial quantity and quality, then this indenture shall continue in effect as a lease upon said premises, from year to year, provided the LESSEE shall pay to the LESSOR, on or before the 9th day of AUGUST of each such year, in advance, a minimum annual advance royalty in the amount of THREE HUNDRED and NO/100 DOLLARS which shall be credited against royalties accruing thereafter to the LESSOR for the year as to which such minimum advance royalty payment is made.

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ROYALTY. For ores of copper, zinc, lead, silver, gold, or other metals produced from said premises and shipped to a mill or smelter, the LESSEE agrees to pay to the LESSOR a royalty of twelve and one-half (12½%) per cent based upon the net mill or smelter returns of the ore mined hereunder; by "net mill or smelter returns" is meant the amount received for such ores from mill or smelter after deducting therefrom the cost of milling, smelting and freight or haulage charges from the mine to the mill or smelter; with payment of said royalty the LESSEE shall submit to the LESSOR a copy of their settlement sheet for each lot which settlement is made, and said settlement sheet and royalty check shall be paid within twenty days after receipt of payments by the LESSEE.

OPERATIONS. The LESSEE shall conduct all its operations hereunder in a skillful and proper manner and according to good mining practices, and, subject thereto, may use such methods of mining as to the whole or any part of the said premises as it finds most profitable and economical, or may, when deemed necessary or desirable, discontinue operations entirely hereunder; provided, that in such event, and upon termination hereof the LESSEE agrees to deliver a good and sufficient and recordable release and termination hereof, releasing and returning unto the LESSOR all rights hereunder; provided further, that upon termination hereof the LESSEE shall have a reasonable time in which to remove its equipment, materials, and improvements from said premises.

TAXES, LIENS, LAWS, AND REGULATIONS. The LESSEE shall pay all valid taxes and assessments levied against its operations or property on said patented mining claim, and to accomplish all its work and operations hereunder free at all times from liens of its laborers or contractors, and in full compliance with all applicable state and federal laws and regulations.

TIME; ASSIGNMENTS. Mining development and production of the mineral resources of the said premises, timely performed, are of the essence hereof, subject to the terms and provisions herein set forth; and all terms and conditions hereof shall be binding alike upon the parties hereto, their respective successors, heirs, and assigns.

TITLE. The LESSOR agrees that he will, upon request of the LESSEE, furnish for examination an abstract of title to the said premises showing good and merchantable title in him, and to correct any defects therein which are required by the LESSEE, at his own expense; such abstract to be returned to the LESSOR upon completion of such examination.

Hereby releasing and waiving all rights in and to said lands under the homestead exemption laws of the State of Montana.

WITNESS the hands of the parties, and to a duplicate hereof, the day and year first above set forth.

Lowell M. Paige
LOWELL M. PAIGE

Eva Portia Paige
EVA PORTIA PAIGE

Boynton G. Paige
BOYNTON G. PAIGE

Helen M. Paige
HELEN M. PAIGE

LESSOR

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JANUS MINING COMPANY

By _____ PRESIDENT

By _____ SECRETARY

LESSEE

STATE OF MONTANA
ss.
County of Madison

On this 30 day of Aug, 1965, before me, personally appeared LOWELL M. PAIGE and EVA PORTIA PAIGE, his wife, to me known to be the persons described in and who executed the foregoing Mining Lease, and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and notarial seal, the day and year in this certificate first above set forth.

_____
Notary Public for the State of Montana.
Residing at Sheridan, Montana.
My commission expires Aug 12, 1967.

STATE OF MONTANA
ss.
County of Granite

On this 2nd day of September, 1965, before me, personally appeared BOYNTON G. PAIGE and HELEN M. PAIGE, his wife, to me known to be the persons described in and who executed the foregoing Mining Lease, and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and notarial seal, the day and year in this certificate first above set forth.

_____
Notary Public for the State of Montana.
Residing at Philipsburg, Montana.
My commission expires Dec 31 1966.

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Acknowledgment to the Lease (Corporation)

STATE OF MONTANA
ss.
County of Madison

On this 14th day of September, 1965, before me personally appeared ALVIN B. SEIBERT and FRED W. HOFFMAN to me personally known, who, being by me duly sworn, did say that they are the President and Secretary of JANUS MINING COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation by authority of its Board of Directors and said President and Secretary acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and notarial seal the day and year in this certificate first above set forth.

Mary Ellen Jewett
Notary Public for the State of Montana.
Residing at Virginia City, Montana.
My commission expires June 12, 1968.

RECORDER'S OFFICE,
Madison County, Montana. } ss.
Filed for record on the 14th day
of September A. D. 1965
at 3:20 o'clock P M., and recorded
in Volume 205 of Miscellaneous
Records on Page 409
Records of Madison County, Montana
Pearl S. Beardsley Brokele
County Recorder
By Deborah T. Spickler
Deputy
Fee 8.00

Return
B J F
Box
Virginia City Mt

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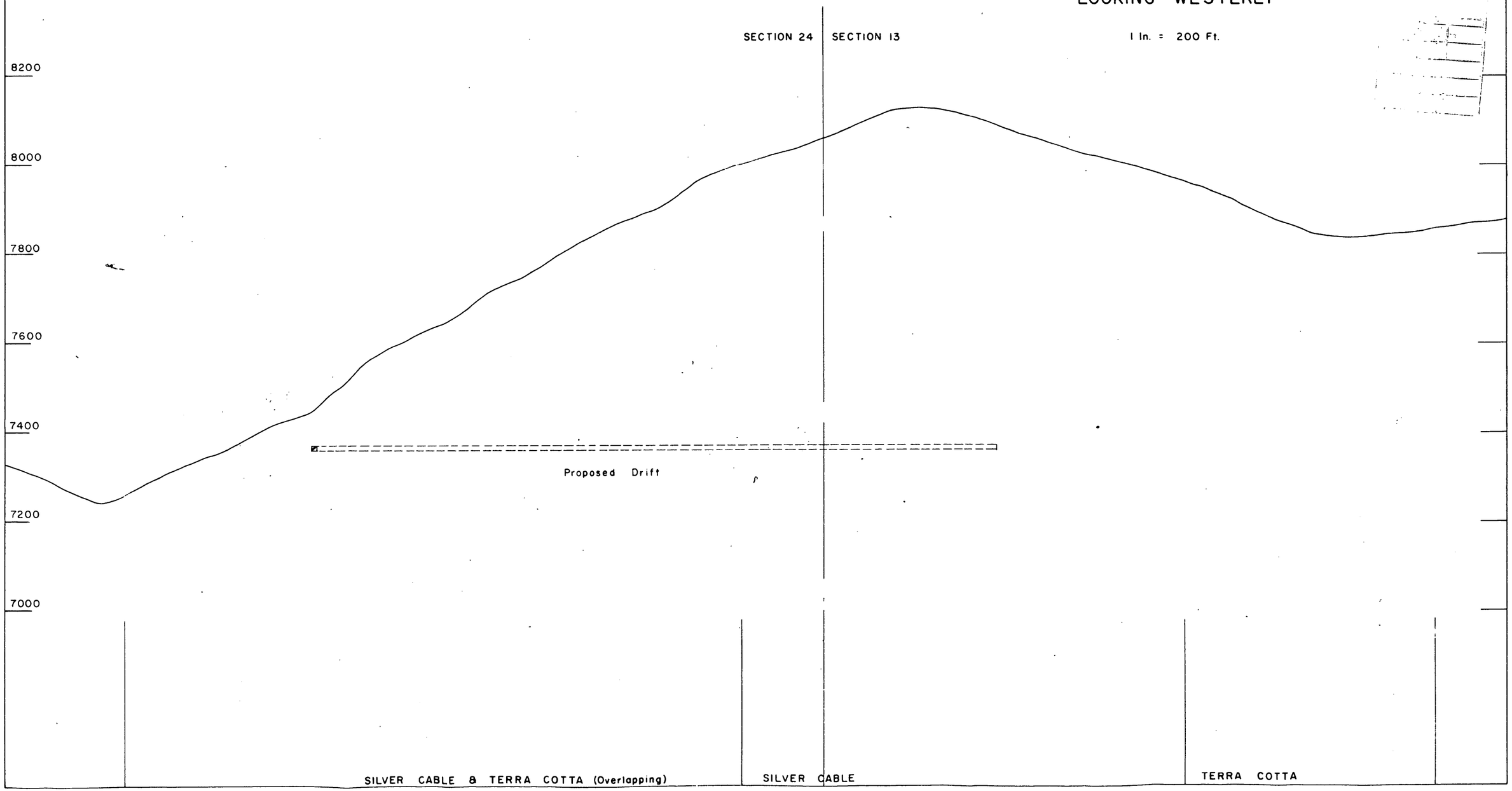
TERRA COTTA GROUP LONG SECTION

LOOKING WESTERLY

1 In. = 200 Ft.



EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

OFFICIAL FILE COPY

Date	Surname	Code

AIRMAIL
Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana 59755

MAR 8 1967

Re: OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

and

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katches:

Thank you for your letter of February 23, 1967, inquiring whether the referenced applications, which were recently denied, can be reopened.

Denial of an OME application is made without prejudice. In this instance the two denials were based on lack of sufficient information. If in the future you do additional prospecting which discloses new and more favorable evidence of ore deposition in the specific areas to be explored, we shall be pleased to consider new applications.

If a new application is submitted, you should refer to the appropriate docket number, include all pertinent new information, and new bank letters dated within the preceding 90 days. Information which has already been submitted need not be duplicated. We wish you the best of success in your mining ventures.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Docket 6521
" " 6523
OME Reading File
R-I w/cy of incoming letter
Mr. Smith
120M

RMSmith/mm (3/1/67)

23263

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

AIRMAIL

FEJ

February 23, 1967

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington, D. C.

Re: OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana
and
OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Johnson:

We are concerned to learn from your recent letter that our applications for financial assistance in exploring the Latchstring and Terra Cotta properties are denied.

Under the circumstances, we trust that you will give us the opportunity to compile and furnish additional information and evidence on these properties, particularlly the Terra Cotta Group.

Would most appreciate hearing from you on this at an early date.

Sincerely yours,

OFFICIAL FILE COPY

Date	Surname	Code

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

and

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katches:

Careful study of your applications for financial assistance in exploring the two referenced properties and of other information available to us indicates that the probability of disclosing significant silver-gold ore reserves is not sufficiently promising to justify Government participation in the proposed exploration. Accordingly, we regret to inform you that your applications are denied.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Econ. Geol. ~~XXXXXX~~
OME-6521
OME-6523
OME Reading File
Region I (2)
130
Smith
120M

RMSmith/mm (2/6/67)

23263

OFFICIAL FILE COPY

Date	Surname	Code
2/7	R M Smith	

February 6, 1967

Memorandum

To: The File

From: R. M. Smith, Office of Minerals Exploration

Subject: OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Justification for Denial of Application

The Applicant's reasons for expecting to find ore on this property are ". . . numerous ore-bearing structures extending for thousands of feet, exploited by a series of adjoining claims . . .The Terra Cotta structure is similar in all respects to the other veins . . ." According to the results of the OME field inspection, there is no evidence of similiarity except in strike. The Terra Cotta structure is exposed in two places 4,000 feet apart. In the Ryden Tunnel a sample 2 inches wide assayed 1.5 oz. gold and 0.7 oz. silver. In the Silver Cable crosscut adit a 4-foot sample assayed 0.24 oz. gold and 0.2 oz. silver. Between the two there is no trench or outcrop that might confirm this very long projection.

The Field Officer concluded that the projection is not sufficiently sound to provide adequate justification for Government participation in the proposed drifting between the two exposures. He also concluded that if future surface bulldozing by the Applicant reveals mineralized vein material to support the projection, then further consideration might be warranted.

I concur in the Field Officer's recommendation to deny the application.

R.M. Smith

R. M. Smith

cc: Director's Reading File
Division File
Economic Geology
OME Reading File
Mr. Smith

RMSmith/mm (2/6/67)

23263

OME

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
GEOLOGICAL SURVEY

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 18 1967
INITIALS
JAN 13 1967
131
110

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: OME-6520 (Silver-Gold)
Janus Mining Co.
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Co.
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Co.
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Co.
Terra Cotta Group
Madison County, Montana

see map, Plate 1, attached to OME-6520 copy

INTRODUCTION

Janus Mining Company submitted four applications for OME assistance to explore for silver-gold ores in the Highland, Pine Grove, and Summit Mining Districts (unorganized) along Alder and Bachelor Gulches, Madison County, Montana. For the purpose of this report these districts are combined and considered as belonging to the better known Virginia City District.

None of the applications presented evidence of specific geologically favorable target areas. Each indicated that the applicant had performed no work on the properties and that most of the old workings were inaccessible. The required information was discussed with the applicant in two letters from the Chief, OME, and a conference with OME staff members in the Washington office. The applicant also conferred in the field with the Chief Geologist who was in the area in connection with the Heavy Metals Program.

During the latter conference it became apparent that the applicant had performed considerable work in the Nellie Bly, Janus, and Terra Cotta areas and that he was still confused as to just what he should present as geologic and mineralogic evidence of the existence of favorable target areas in compliance with the OME request. In a final effort to clarify this matter, a prereferral conference with the applicant and an inspection of the claims was scheduled.

FIELD EXAM DEPT.

On September 19, 1966, accompanied by A. J. Katches, Vice President, Bob Ingersoll, geologist for Anaconda Mining Company and consultant for the applicant, and K. L. Wier, Geological Survey, an inspection was made of vein exposures and new workings on the Nellie Bly, Terra Cotta, and part of the Janus Groups. The site of the Upper Portal and Shaft of the Bartlett mine was also visited, but the workings were inaccessible due to caving. On the 20th, Katches, Wier, and the examiner visited other parts of the Janus Group in the morning and in the afternoon the data required of an applicant was again explained in detail to Katches. Mr. Wier was most helpful during the inspections and the explanation of the OME requirements.

The applications were referred to the field October 10, 1966. In view of the September inspection and the additional data furnished by the applicant, it is believed that a fair appraisal can be made without another visit to the property.

This report will discuss those features that are more or less common to all four applications and, under subheadings where necessary, will discuss specific features of each application.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that exploration, with Government assistance, of two veins, one containing gold-silver values extending from the Janus group to the Nellie Bly group and one containing copper values on the Janus groups is warranted.

A program involving crosscutting and drifting a total of 2,400 feet is recommended provided certain ground, not now controlled by the applicant, be acquired and added to the land presently included in the Janus (OME-6520) and Nellie Bly (OME-6522) applications.

The total estimated cost of the recommended project is $107,120.00, of which the Government's share will be 62½ percent or $66,950.00.

LOCATION, ACCESSIBILITY, AND PROPERTIES

The claims are located in parts of secs. 1, 11, 12, 13, 14, 23, and 24. T. 7 S., R. 3 W. P.M. along Alder and Bachelor Gulches from about 3 to 6 miles east of Virginia City, Montana. The groups are accessible by a county road that follows along Alder Gulch and forks to follow up Bachelor Gulch. From the county roads, fairly good mine roads lead to the tunnel portals. Probably, the county roads and some of the adit access roads could be kept open during most of the winter by plow and dozer. Since submitting the applications, one claim has been added to the Nellie Bly group.

In the four claim groups the applicant controls by lease 5 patented lode claims and by right of location 21 unpatented lode claims as follows:

Janus Group - OME-6520

Claim	Patent No.	Book	Page
Highland	42436		
Janus Lode		211	11
Janus No. 1		211	13
Janus No. 2		211	15
Janus No. 3		211	17
Janus No. 4		211	19
Giltedge Lode		211	299
Giltedge No. 2		211	301
Giltedge No. 3		211	423

Latchstring Group - OME 6521

Latchstring Lode		211	321
Latchstring No. 1		211	323
Latchstring No. 2		211	419
Latchstring No. 3		211	421
Greybache Lode		211	413
Greybache No. 1		211	415
Greybache No. 2		211	417

Nellie Bly Group - OME-6522

Nellie Bly Lode	491535		
Alder Fraction Lode	491535		
Prescot Lode	491535		
Malta Lode	491535		
Desiree		211	35
Malta No. 2		211	566

Terra Cotta Group - CME-6523

Claim	Book	Page
Silver Cable Lode	211	23
Silver Cable No. 1	211	25
Terra Cotta Lode	211	31
Terra Cotta No. 1	211	33

In addition to these 26 claims the applications state that there are at least 3 patented placer claims controlled by the applicant. One of these, indicated as No. 515 Placer on the claim maps accompanying the applications for projects on the Janus and Nellie Bly claims and on subsequently furnished maps of these two groups, is pertinent to the recommended project. However, there is nothing in the applications to indicate whether this claim was acquired by purchase or lease.

Originally, there were two areas of open ground on the Nellie Bly group, one of which has been closed by the applicant's filing on the Malta No. 2 claim. The other area is bounded by the Nellie Bly southeast side, the Alder Fraction northeast side line, and the Prescot north side line and is indicated by diagonal lines in the accompanying plate 1. Another open area apparently pertinent to the recommended work, may be north of the west one-third of the Winnetka claim. At present Katches is a part owner of a lease on the Winnetka claim and is negotiating with his partners and the owner to sell the claim to the applicant, the Janus Mining Company.

The 1" = 1000' map entitled "Lode & Placer Claims in Alder Gulch . . ." which accompanied each application, shows two unnamed lode claims overlapping the north and west portions of the Winnetka. Another unnamed claim overlaps the east ends of Janus No. 3 and No. 4 claims. Apparently, none of these claims are patented. However, they overlap or come very close to the tunnel portals and one vein apex that will be recommended for exploration.

GEOLOGY

The geology of the Virginia City and adjacent districts in which lie the applicant's claims is described by:

Peale, A. C., 1896, Description of the Three Forks Sheet [Montana], U. S. Geol. Survey Geol. Atlas, Folio 101

Winchell, A. N., 1914, Mining districts of the Dillon quadrangle, Montana, and adjacent areas: U. S. Geol. Survey Bull. 574, p. 158-165

Tansley, W., Schafer, P. A., and Hart, L. H., 1933, A geological reconnaissance of the Tobacco Root Mountains, Madison County, Montana: State of Montana Bur. of Mines and Geol., Memoir No. 9, p. 45-50

Rocks in the Virginia City area are for the most part pre-Beltian gneiss and schist overlain to the south and southeast by limestone, shale, sandstone and quartzite beds of Paleozoic and Mesozoic Age and basaltic flows of Cretaceous Age. The only rocks seen in place on any of the properties were gneiss and schist of the Cherry Creek series described by Tinsley, et al. (1933), and, in Tunnel No. 2 on the Nellie Bly claim, a hard blue-gray streak may represent the crystalline limestone member of the same series. The Cherry Creek series are said by Tinsley to be pre-Beltian in age, but Peale (1896) says that they are of Algonkian Age. Pegmatitelike lenses and bands may represent the quartz-feldspar gneiss described by Tinsley. Limestone float and some fairly large boulders or blocks of limestone were seen on the slopes on which the Nellie Bly claims are located, strongly suggesting that a bluff near the eastern edge of the claims is probably Paleozoic limestone.

According to Tinsley (1933, p. 20), the Cherry Creek rocks occupy a broad structural trough within which they are highly contorted into overturned folds with westward-dipping limbs.

Ore deposits occur in fissure veins in the Cherry Creek rocks. According to Tinsley, the veins may be roughly assigned to one of two systems, one striking northeasterly and one striking northwesterly, most of the veins in each system dipping from 55° to 77° northerly. However, some evidence of at least one and probably three east-west veins was seen by the examiner and is indicate on the applicant's maps which accompany Dockets OME-6520 and OME-6522 and on plate 1. One of these is on the Malta claim (OME-6522), the two others are on No. 515 placer claim just east of Giltedge No. 1 (OME-6520). Only the last two were seen by the examiner. The existence of the Malta vein is suggested by an easterly line of old pits now pretty well sloughed full of debris. Two samples the

applicant took from one of the pits assayed respectively trace gold and 0.4 ounce silver per ton and 17.4 percent copper over a width of 10 inches, and trace gold and trace silver per ton and 5.0 percent copper over a width of 36 inches.

The balance of this section of the report will be a more specific discussion of what was seen on each claim group. The discussion pertinent to the Janus and Nellie Bly groups may be followed on the accompanying plate 1. That relating to the Terra Cotta and Latchstring groups may be followed on maps in the respective dockets. For lack of suitable space, those sample locations and assays considered of secondary importance have been omitted from plate 1, but are shown on maps the applicant submitted with his letter of October 3, 1966.

Janus Group - OME-6520

The portal of a crosscut tunnel starting near the east end of the Janus No. 3 center line (pl. 1) was boarded up and, as the applicant gave assurance that no structure was exposed, was not entered. The adit had been started because of large pieces of copper-stained float that were found nearby and was directed so as to pass beneath a surface trench where sample 712 exposed a vein striking about N. 15° W. and dipping about 55° SW. Sample 712, taken by the applicant, assayed trace gold and 0.2 ounce silver per ton and 1.71 percent copper over a width of 48 inches. By the time the examination was made the trench walls had sloughed; scratching around with a hand pick revealed quartz that appeared to be a vein in place, but its attitude could not be determined. A sample taken by the examiner assayed trace gold and 0.1 ounce silver per ton, and 2.30 percent copper over a width of about 24 inches.

About 600 feet south of the adit, a cut bulldozed to widen the road, exposed what at that time appeared to be a concentration of quartz float. Since the inspection, additional dozing is said to have exposed a quartz vein striking about N. 48° W. and dipping 60°-65° SW. The applicant's sample 5008 assayed 0.40 ounce gold and 3.4 ounces silver per ton over a width of 60 inches.

On strike and altitude this exposure correlates very well with an exposure indicated on plate 1 at Nellie Bly Tunnel No. 4 which will be described later.

Following the road for about 1,820 feet farther to the south, another road-widening dozer cut exposed another zone containing an apparently east-west striking and steeply dipping quartz vein and a zone heavily stained by iron oxide. The applicant's sample 3681 of the quartz vein assayed 0.49 ounce gold and 0.6 ounce silver per ton over a width of 31 inches; his sample 3684 of the iron-stained material assayed 0.12 ounce gold and 0.3 ounce silver per ton over

a width of 24 inches. The slope of the hill, for about 500 feet, westerly from these showings is too steep to permit dozing of trenches; as the slope flattens the applicant believes the overburden will be so deep as to make the cost of dozing excessive, and its results doubtful of success.

Latchstring Group - OME-6521

There are no trenches or exposures of vein material on the Latchstring group. Adjacent and to the west of the Greybache Lode is the Bartlett claim from which over 8,700 tons of ore averaging 0.421 ounce gold and 1.34 ounces silver per ton were shipped to the Anaconda Reduction Works between 1935 and 1941. The applicant has projected the vein exposed in the Bartlett Lower Tunnel for a distance of over 1,000 feet to the southerly end line of the Latchstring Lode Claim. Solely upon the basis of this projection he proposes to drive a 1,600-foot crosscut to try to locate the vein and, if found, to explore it by drifting some 2,000 feet northeasterly. (See map accompanying applicant's letter October 3, 1966, to Chief, OME.)

Nellie Bly Group - OME-6522

After plate 1 had been completed, it was learned that a new survey showed a slightly different relation between the locations of the old Tunnel No. 1 portal, the main shaft A and shaft B and the location of part of the No. 2 tunnel. A print of this new relationship, at 1" = 40', is in the docket with a copy of the applicant's letter of November 28, 1966 to the Field Officer, Region I, and an attempt has been made to incorporate these relative locations on plate 1. However, the rest of the old workings must remain as originally given and should be considered only as indicating that such workings exist but are probably south of their locations as shown on plate 1.

The inspection of the Nellie Bly claims started at the old workings. Although Tunnel No. 1 and shafts A and B were not accessible for sampling at the time of the inspection, samples had been taken previously by the applicant as follows:

Location	Sample No.	Width (inches)	Ounces/Ton Au	Ounces/Ton Ag
	433	48	0.26	1.0
Shaft B*	434	8	0.32	2.5
	435	40	0.14	1.6
	NB 2	48	0.30	1.3
Average		36	0.24	1.35
*Sample V-1 is omitted - erratically high grade				
Tunnel No. 1	D-6 (selected specimen)		0.52	6.5
Shaft A	436	20	1.88	2.8

The next lower old tunnel was caved at the portal. A ladder, in a caved portion that opened to the surface, did not look very strong so this tunnel was not entered. The next and lowest tunnel was caved at the portal and was inaccessible. These workings apparently are along a shear zone in Cherry Creek schist. In places the shear zone exceeds 5 feet in width and contains several more or less parallel veins and veinlets of quartz and siliceous material. The zone strikes approximately N. 70°-75° W. and dips 74°-78° NE. (See map forwarded with copy of December 9, 1966 letter, Ingersoll to Field Officer, Region I.)

About 50 feet southwesterly from the middle old tunnel the applicant had exposed and sampled two mineralized zones he had scraped clear of overburden. They had been pretty well covered by normal soil creep at the time of the inspection. From the northerly zone he reported three primary samples, one of which was check sampled twice, another once. Averaging the primary sample assays with their respective check assays there is represented a width of 6 feet as follows:

Sample No.	Average sample width (inches)	Average oz/T Au	Ag
T1,V-1;TR-57	24	0.13	0.7
TR-51;TR-52 TR-62	26	0.13	0.2
439	24	0.16	0.2

Four samples were taken by the applicant, and one by the examiner, from the southerly zone and assayed:

Sample No.	Sample width (inches)	Average oz/T Au	Ag
3334	36	0.26	0.4
3346	9	0.36	1.1
3356	18	0.22	0.4
3357	12	1.18	0.4
OME-600B	12	Tr	0.1

The OME sample was taken approximately between the applicant's samples 3356 and 3357.

Tunnel No. 2 was started on a bearing of N. 85° E in order to intersect the productive ore zone below the old workings on the Nellie Bly vein. About 50 feet from the portal a siliceous zone flanked by softer heavily iron-stained zones was cut. At the time of the

inspection the iron-stained portions were timbered and the central siliceous portion was seen only on the south wall. Too much reliance was placed in the applicant's map then available, which lacked sample assays, and this was thought to be merely an unmineralized quartzite bed within the schist.

About 100 feet from the portal a crosscut has been driven southerly for about 50 feet. The applicant reported that a shattered siliceous zone with some clay had caused caving between 20 and 30 feet in the crosscut; this section had since been tightly lagged and could not be seen.

A subsequent map showing sample locations and assays suggest that two siliceous zones flanked by oxidized zones might represent a mineralized structure parallel to the Nellie Bly. The last map submitted at a scale of 1" = 40' seems to show that this structure probably is the Nellie Bly vein. Three samples from the drift and five from the crosscut have the following assays:

Sample No.	Material sampled	Width (inches)	Ounces/T Au	Ag
3379	FeO stained	36	0.46	2.2
3382	Siliceous	24	0.64	Tr
3385	FeO stained	29	0.24	0.2
3391	Siliceous	17	0.58	0.3
3625	FeO stained	24	0.16	0.5
3626	FeO stained	24	0.14	0.5
3619	Siliceous	31	0.16	1.1
3622	Siliceous	31	0.20	Tr

At the time, the applicant did not recognize this structure as being the Nellie Bly and continued the adit easterly. About 185 feet from the portal the adit entered blocky caving ground requiring heavy timbering. In the hopes of bypassing the bad ground, the adit about 20 feet back from the cave was driven southeasterly for 45 feet then turned to N. 67° E. At the time of the inspection the face was about 390 feet from the portal and was entering a highly siliceous blue-gray-to-light gray rock. The applicant stated that this material was similar to that just described as possibly being the Nellie Bly. The exposure was so close to the drift face that no reliable attitude could be determined although the siliceous material appeared to strike northwesterly and to dip northeasterly. The rock contained a fair amount of pyrite in small crystals, but a sample chipped by the examiner from several places in the siliceous band, zone, or bed assayed only 0.04 ounce gold, 0.4 ounce silver, and trace copper.

Tunnel No. 3 was temporarily closed by a cave at the portal. The applicant's map shows that he has driven it easterly for 330 feet, parallel to the line of old trenches he believes to represent the Malta vein. About 25 feet from the face he has driven a crosscut southeasterly for about 65 feet, then turned easterly and continued for about 50 feet. Although his maps do not indicate it, he recently stated in a telephone conversation that the last 50 feet or so is following the Malta vein. However, we have not received assays of any samples from this working.

There were no exposures, surface or underground, to indicate the location and attitude of the Alder Fraction vein. Four old underground workings, any or all of which might cut such a structure, were caved before the applicant became interested in this property and have not been reopened. The applicant justifies the location of this vein on his map by reasoning that since the claim is patented, the mineral surveyor must have found strong vein showings in some of the old workings. However, from the locations shown on the map, it is also conceivable that one of the old tunnels, started on No. 515 Placer claim near the north end line of the Alder Fraction claim, could be following the Nellie Bly or a vein parallel and close to it. Another old tunnel, started about on the Placer-Alder Fraction boundary, could conceivably have been driven to crosscut the Nellie Bly, although this is more questionable than the former possibility.

In the docket the statement is made to the effect that the most recent shipment from the old Nellie Bly workings was in 1941 when 80 tons were shipped to Anaconda. This is probably not strictly correct because on the map that shows sample locations and assays (received early in October 1966) a note says: "Available shipment returns from the Nellie Bly to the Anaconda Reduction Works, Anaconda, Montana, and to the American Smelting and Refining Smelter in East Helena, Montana, show small shipments from 1901 to 1941 totaling 83 tons averaging 0.836 oz Au and 2.3 oz Ag per ton."

A recently discovered vein series is exposed in a dozer cut within the No. 515 Placer claim. Although not strictly a feature of the Nellie Bly group, this occurrence should be included in this section. The trench exposure was visited by the examiner and since then, an open cut from which a new tunnel, Nellie Bly No. 4, has been started, was excavated.

The original trench had exposed four siliceous zones or quartz veins within a distance of about 50 feet. A sample of each zone had been taken by the applicant. Their widths and assays, listed from north to south along the trench, are:

Sample No.	Sample width (inches)	Average oz/T Au	Ag
3657	8	0.32	2.0
3660	26	0.22	1.3
3662	20	0.26	2.0
932	15	4.30	3.2

On strike the vein lines up with the one exposed in the road cut about 600 feet south of the adit on the Janus No. 3 claim and there is very little difference between the altitudes of the respective exposures. For convenience this vein will be called Nellie Bly No. 4. Since the inspection the applicant has excavated an open cut along the vein sampled by 932 to make a face for starting a drift. He has furnished assays of 13 samples taken from the open cut. As nearly as can be determined from the brief description tabulated on his map submitted late in November, three samples were taken from the hanging-wall zone, two samples and one check sample were taken from the siliceous vein zone, and three samples were taken from the footwall zone. Based on these samples, the average widths and grades of each zone are:

Zone	Width (inches)	Ounces/T Au	Ag
H.W.	24	0.57	4.8
Vein	18	0.80	6.58
FW.	50	0.13	1.1

The average grade across the full width of 92 inches is 0.38 ounce gold and 3.14 ounces silver per ton. The hanging wall and vein samples combined indicate a grade of 0.67 ounce gold and 5.56 ounces silver per ton over a width of 42 inches.

One sample was taken across a width of 108 inches which included all three zones, hanging wall, vein, and footwall. It assayed 0.20 ounce gold and 1.6 ounces silver per ton. Two grab samples were taken, one from a 4-ton pile of siliceous material, the other from "siliceous material," source unspecified. Respectively, these samples assayed 0.42 ounce gold and 2.8 ounces silver per ton, and 0.12 ounce gold and 1.1 ounces silver per ton. The remaining sample was taken to test an argillite(?) band 10 feet from the footwall of the vein; it showed only a trace of gold and silver.

Three shipments from the open cut were sent to the Anaconda Sampler. Unfortunately, the applicant was ill advised as to the Sampler size requirements; the result was that much of each shipment

was thrown out as over size. The 194 SDT accepted had an average grade of only 0.12 ounce gold and 1.14 ounces silver per ton and 0.08 percent copper. The sample assays tabulated above probably support the applicant's contention that better values were lost when the oversized material was rejected by the smelter.

This "new" vein, Nellie Bly No. 4, strikes N. 47°-50° W. and dips 60°-65°SW. Easterly from the trench and open cut, along the strike of the vein, the surface rises about 140 feet in a horizontal distance of 500 feet. Therefore, if the vein is projected in this direction along its apparent strike and dip, it will outcrop about 160 feet north of the northwest corner of the Nellie Bly claim, or some 40 feet north of the Winnetka north side line, should the applicant acquire that claim and add it to the land to be included in the application.

Terra Cotta Group - OME-6523

According to Katches and Ingersoll, there are a few old debris-filled pits on the property, none of which expose any vein material although occasionally pieces of quartz may be found in the debris. The locations of the trenches have not been surveyed for mapping nor has any of the quartz been sampled.

Near and southeast of the Terra Cotta claims is the Oro Cache vein which is said to strike N. 10° E., dip 65°-70° NW. and to have produced about $500,000 worth of gold between 1864 and 1880 (Winchell, 1914, p. 163). About 1,000 to 1,500 feet to the southwest is the "Kearsage vein" which is said to strike N. 23° E., dip about 65° NW. and to have produced about $150,000 worth of gold (Winchell, 1914, p. 159 and 163). About 1,500 to 1,600 feet northeasterly from the north end line of the Terra Cotta group is the Ryden Tunnel. The strike and dip of, and production from, the Ryden vein are not known, but a sample of the vein taken by the applicant assayed 1.5 ounces gold and 0.7 ounce silver per ton over a width of 2 inches. Ingersoll has promised to send a map of these workings which will be forwarded when it is received.

Based on the recorded production from the Oro Cache and Kearsage mines and on a southwesterly projection of the Ryden vein, the applicant has driven, from near the southwest corner of the Silver Cable Lode claim, an east-bearing adit for about 400 feet. A sample of iron oxide-stained material from the face when it was at 95 feet assayed 0.76 ounce gold and 0.5 ounce silver over a width of 6 feet, but when the walls were examined after the adit had been driven farther only a few paper-thin seams, slightly iron stained, were found. At 100 feet the applicant took two samples of a siliceous vein that assayed respectively 0.40 ounce gold and 0.4 ounce silver per ton and 0.4 ounce gold and trace silver per ton, each over a width of 6 feet.

At about 270 feet the adit crossed a strong clay-filled seam a few inches wide with some pyrite and limonitic stains. A sample cut across this structure assayed 0.24 ounce gold and 0.2 ounce silver per ton over a width of 4 feet. It is along this structure that the applicant proposes to drift for some 1,500 feet.

The approximate distance from the place at which the Terra Cotta sample was taken and the place where the Ryden Tunnel was sampled is in the order of 4,000 feet. Within this distance there is said to be no trench or outcrop that might confirm this very long projection.

Summary.--On the basis of an inspection plus the maps and assay data furnished by the applicant, the most promising areas in which OME might consider participating in exploration are on the Janus group and the Nellie Bly group and are shown in plate 1.

A vein exposed in the road cut about 600 feet south of the adit on Janus No. 3 and a vein zone exposed in the cuts on No. 515 Placer claim are believed to be one and the same, here called the Nellie Bly No. 4 vein. In the road cut one sample indicates that the vein contains 0.4 ounce gold and 3.4 ounces silver per ton over a width of 60 inches.

The sample locations and material descriptions given by the applicant are not too clear or precise, but they suggest that there may be exposed in a north-south trench on No. 515 Placer claim two siliceous veins about 60 feet apart, between which are two iron-stained siliceous zones.

Based on sample 932 which assayed 4.3 ounces gold and 3.2 ounces silver per ton, over a width of 15 inches, an open cut was excavated from which a drift to the southeast has been started. This work is in a vein and hanging-wall zone 42 inches wide with an average grade, based on six samples, of 0.67 ounce gold and 5.56 ounces silver per ton. Based on the average of the road cut sample (5008), sample 932, and the vein zone in the open cut, Nellie Bly No. 4 vein is apparently a strong mineralized zone having a grade in the order of 1.00 ounce gold and 4.15 ounces silver per ton over a width of about 39 inches.

A second area of potential interest is based on two samples from a trench exposure near the north end of the Janus No. 1 claim. They indicate a vein said to strike about N. 15° W. and dip 55° SW., with an average grade of 1.91 percent copper over an average width of 36 inches.

On the Nellie Bly claims in the area of the old workings and the applicant-driven Tunnel No. 2 there is evidence of at least two closely spaced siliceous veins about where the Nellie Bly vein should be. Grouping samples reported to be of siliceous vein material and those of iron oxide-stained siliceous veins, it appears that the oxidized material is narrower and of higher grade at the tunnel level and the unoxidized siliceous veins are narrower and of higher grade at the surface. The number of samples involved and the average widths and grades are:

Siliceous Vein

Horizon	No. of samples	Width (inches)	Ounces/T Au	Ag
Surface	8*	22	0.45	1.20
No. 2 Tunnel	4	26	0.35	0.38

*Applicant's sample V-1 omitted as erraticly high; 3374 and 439 omitted--doubtful correlation; and D-6 omitted--selected from dump.

Iron oxide-stained wall rock and/or vein

Surface	5*	41	0.18	0.47
No. 2 Tunnel	4**	28	0.28	0.96

*Applicant's samples TR62, TR57, TR52, TR51, and T1, V-1 ommitted--doubtful correlation.

**Applicant's samples 3608, 3609 omitted--doubtful correlation.

The average widths and grades of the 13 samples of fresh and oxidized material in the vein zone at the surface plus those of the 8 samples of fresh and oxidized material apparently from the same zone at the Tunnel No. 2 level are:

Horizon	Width (inches)	Ounces/Ton Au	Ag
Surface	37	0.27	0.72
No. 2 Tunnel	27	0.31	0.68
Average	32	0.29	0.70

Finally, on the Malta claim in the Nellie Bly group, two samples from one surface pit taken by the applicant indicates a possible easterly striking vein with an average grade of 7.69 percent copper over an average width of 23 inches. Although the applicant has said he is following this vein from a crosscut south from Tunnel No. 3, he neither shows the vein on his maps, nor has he presented any samples from the drift.

Long projections and the lack of surface indications that the projections are sound do not provide much justification for the Government to consider at this time the exploration proposed for the Latchstring and Terra Cotta groups. Surface bulldozing by the applicant, if it successfully supports his projections and if the vein samples show reasonable gold, silver, and/or copper content, might justify further consideration at a later date.

CONCLUSIONS

It is concluded that exploration of the Nellie Bly No. 4 vein by drifting southeasterly from Tunnel No. 4 offers a very good chance of finding a significant gold-silver ore body. However, before a recommendation for this work could be favorably considered, the applicant should submit documentary evidence (including any necessary Lien and Subordination Agreements) of his right to the Patented No. 515 Placer claim, and should acquire rights to the Winnetka claim and an unnamed claim, shown on his 1" = 1000' map, which overlies the northwestern corner of the Winnetka claim and part of the No. 515 Placer claim.

It is also concluded that the extension of the proposed crosscut on the Janus group from the present face has a better than fair chance of crossing the northwesterly extension of the Nellie Bly No. 4 vein at about 300 feet and the copper-bearing vein (sample 712) at about 800 feet. The copper-bearing float seen near the crosscut portal and at one or two other localities along the road suggest that there is a possibility of the existence of other copper-bearing veins in this area, chiefly because of the distance the float would have had to be carried if it came from the 712 exposure. This, however, is pure speculation, but because it is a possibility, it is concluded that the crosscut would be more exploratory than a drift along the Nellie Bly No. 4 vein from a new portal site.

Because Tunnel No. 2 is only about 150 feet below the lowest known level of the old workings, it is concluded that drifting along the Nellie Bly vein on this level would probably have to be considered as attempting to extend known ore. Also, on the basis of available assay data the indicated target, estimated to be 250 feet long, 150 feet high and 3 feet wide would contain some 8,600 tons of ore with an average grade of 0.29 ounce gold and 0.70 ounce silver per ton and an average value of $11.05 per ton or a total estimated

value of $95,030.00. A few of the samples and the available records of shipments from the old workings suggest that the average value might be increased by careful sorting and/or selective mining, but this would considerably decrease the estimated reserve tonnage. It is therefore concluded, based upon the data available, that the chance of making a significant discovery of gold-silver ore by drifting on the Nellie Bly vein at the Tunnel No. 2 level, is only fair.

Because of the meager factual geologic and mineralogic information available, the existence of the Alder Fracture vein and of the Malta vein is open to question. At this time it can only be concluded that exploration on these veins cannot be recommended. Should the applicant furnish a map showing strike, dip, width and sample locations with assays relative to these veins and a new application based on this data, these possible target areas should be reconsidered.

Finally, it is concluded that there is insufficient evidence available at this time to consider Government participation in the cost of any exploration on either the Terra Cotta or the Latchstring claims. Additional prospecting by the applicant might suggest potentially profitable exploration on the Terra Cotta group and possibly on the Latchstring group.

RECOMMENDATIONS

Before any contract is considered, it is recommended that the applicant be required to:

1. Furnish suitable documentary evidence of his right to Patented No. 515 Placer claim and any appropriate Lien and Subordination Agreements.

2. Furnish the Leases and Agreements referred to in your letter of December 28, 1965, to Mr. Katches. In his letter of February 16, 1966, next to last paragraph on page 3, Katches points out that the leases you refer to are "on a year-to-year basis, as long as rents or advance royalty payments are paid annually . . . if there is a problem in this form of lease, we could obtain a longer term lease, which would also be subject to termination . . ." We do not know whether this explanation satisfies the Lease requirements, but to date, no Lien and Subordination Agreements have been received.

3. To file on the small triangle of open ground bounded by Nellie Bly, Alder Fraction, and Prescot side lines. Although this small area will not be effected by the recommended project, perhaps, it should be included in the land described in the contract. This recommendation is made only to direct attention to the existence of ground not controlled by the applicant, and is subject to a policy decision.

Only if the applicant furnishes the documentary evidence recommended in items 1 and 2 is the following program recommended:

1. Extend the drift heading southeasterly from the portal of Nellie Bly No. 4 adit for a distance of 500 feet to explore the Nellie Bly No. 4 vein for gold-silver ore bodies.

2. Extend the crosscut heading southwesterly from the portal of the Janus No. 3 adit for a distance of 900 feet to explore for the lateral extension of the Nellie Bly No. 4 vein, the downward extension of the copper-bearing vein (sample 712), and any other veins that may exist in that area. From the two most promising veins exposed in the crosscut, drift northwesterly and/or southeasterly a total of 500 feet on each.

3. To explore for parallel veins and/or ore shoots in the drift walls, at 50-foot intervals in each drift drill long holes up to 50 feet deep into each wall.

COSTS

In the event that the applicant furnishes as much of the documentation described in items 1, 2, and 3, as may be considered necessary to establish fully his property rights and to protect the Government's royalty rights, the following cost estimate is offered.

DRIFTING

2,400 feet of drift and/or crosscut, 5'x7' rock section; rate of advance 5 ft/shift, 2 shifts or 10 ft/day; 22 days or 220 ft/month; time required 10.9, say 12 months. Estimated 21 holes/5-ft round.

1. Independent Contracts — None

2. Labor and Supervision (per shift)

2 miners at $22/day	$44.00
1 helper-trammer operator $20/day	20.00
½ geologist-engineer-supervisor at $750/mo or $34/day	17.00
Total	$81.00
FICA and other insurance at 16.28%	13.19
	$94.19

At 5 feet per shift, $18.838 say $18.84/ft

3. Operating Materials and Supplies (per 5-foot round)

Powder, 32 lbs at $28.50/cwt	$ 9.12
Caps, 21 each at $0.06	1.26
Fuse, 210 ft at $0.02/ft	4.20
Air line, 2" w/fittings 2,500 ft at $0.70/ft (less 50% - no salvage)	1.82
Water line, 1" w/fittings 2,500 ft at $0.35/ft (less 50% - no salvage)	0.91
Air hose, 1" w/fittings 600 ft at $0.57 ft	0.71
Water hose, 3/4" w/fittings 600 ft at $0.28/ft	0.35
Gasoline, 50 gal at $0.375	18.75
Oil and grease, 10% of fuel	1.88
Vent line, 12", 2,400 ft at $1.35/ft (less 50% - no salvage)	3.38
Rail, 25#, 5,000 ft at $300/T (less 50% - no salvage)	6.50
Ties, 835 each at $0.40	0.70
Fish plates, spikes, etc. at $0.54/ft	2.70
Water storage tank, 2 each at $30 (less 50% - no salvage)	0.06
Steel, 1 replaced/300 ft at $18.25 each, 105 ft/round	6.38
Bits, 1 replaced/300 ft at $4.80 each, 105 ft/round	1.68
Small tools, repair parts, etc. at $0.50/ft	2.50
Total	$62.90

At 5 feet per round $12.58/ft

4. Operating Equipment (Work will be done in each of 2 adits 900 ft apart)

Owned by applicant	Present fair market value	Monthly deprec.
2 Joy 600 cpf, compressor (new)*	$23,600.00	$ 393.33
2 Air receivers (used)*	300.00	5.00
2 Trammers w/charger pannels and extra batteries (new)*	47,360.00	789.33
2 Eimco B-12 muckers (used)*	3,800.00	63.33
2 Air blowers (used)*	1,000.00	16.67
4 Jacklegs, JR 38C (new)**	5,120.00	85.33
1 Chain saw (used)	154.00	2.57
6 Mine cars, 1 T (used)***	600.00	10.00
Depreciation per month		$1,365.56

At 220 feet per mo, $6.207 say $6.21/ft

*1 at each portal
**2 at each portal
***3 at each portal

5. and 6. None

7. Miscellaneous

Assays

220 channel and car samples assayed for gold and silver at $3.50 each	$770.00	
150 channel and car samples assayed for gold, silver, copper at $5.00 each	750.00	$1,520.00
Total cost/ft for crosscutting and drifting, $37.63	say	$38.00/ft

TIMBERING

Although much of the completed crosscutting shows the ground to stand fairly well, drifts and shears cut by the crosscuts have required considerable timber. For work at the Gold Leaf Claims of B.L.M.W. (OME-6345) it was estimated that about 16 percent of the drifting and crosscutting would require timber. By the end of the project, 450 feet of new opening required 197 feet of timber or about 44 percent. It is therefore recommended that provision be made for 50 percent timbering of crosscuts and drifts. On this assumption 1,200 feet of timbering will require 241 standard sets, 5'x7' in the clear. Two miners and a helper should be able to stand, block and lag 3 sets or 15 ft/shift requiring a total time of 80 shifts at 22 shifts/month or 3.6, say 4 months.

1. Independent Contracts — None

2. Labor and Supervision (per shift)

2 miners at $22/day	$44.00
1 helper-trammer at $20/day	20.00
Total	$64.00
FICA and other insurance at 16.28%	10.42
	$74.42

At 15 feet per shift — $4.96/ft

3. Operating Materials and Supplies

482 posts, 8"x8"x7'	=	17,995 bf	
241 caps, 8"x8"x6'6"	=	8,355 bf	
480 collar braces 4"x6"x4'4"	=	4,160 bf	
4,400 lagging 2"12"x5'	=	44,000 bf	
		74,510 bf	
at $65/M		$4,843.15	
Plus 10% blocks, wedges, etc.		48.43	$4,891.58

At 1,200 feet of timber, $4.076 — say $4.08/ft

4., 5., 6., and 7 — None

Total cost per foot for timber, $9.04 — say $9.00/ft

RECAPITULATION

2,400 ft crosscutting and/or drifting at $38.00/ft	$91,200.00
1,200 ft crosscut and/or drift timbering at $9.00/ft	10,800.00
220 samples assayed for gold and silver at $3.50	770.00
150 samples assayed for gold, silver, and copper at $5.00	750.00
3,000 ft long hole drilling at $1.20/ft	3,600.00
Estimated total cost of project	$107,120.00
Government's participation at 62½%	$ 66,950.00

D. R. Maclaren

D. R. Maclaren

Enclosure
Distribution:
~~GME~~(4) (1 w/plate 1)
USGS(SRO)
Docket
K. L. Wier
Maclaren

, 1906

6528

[illegible] Maclaren
Field Officer, OME
Geological Survey
South 15[illegible] Howard St.
Spokane, Washington

Dear Mr. Maclaren:

Enclosed are two copies of the [illegible] in Tunnel No. 2 on the Neptune Bay claim. Shown dashed is the proposed crosscut to cut the vein as projected from surface to the tunnel elevation. Mr. Hutches has advanced along this proposed line about 40 feet to date.

Sometime next week I'll send you a map showing the correlation between the Nyman [illegible] and the present Terra Cotta tunnel.

Yours [illegible]

/S/ Robert G. Ingersoll, Jr.

Robert G. Ingersoll, Jr.

ORIGINAL COPY

RECEIVED
DEC 12, [illegible]

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

6523

December 7, 1966

Mr. D. R. MacLaren
Field Officer, OME
Spokane, Washington

Dear Mr. MacLaren:

With reference to our phone conversation yesterday, wish to advise that Bob Ingersoll will forward directly to you copies of McAleer's map, as described to you on the phone, relative to present Nellie Bly No.2 tunnel developments. And enclosed herewith a copy of McAleer's letter wherein he refers to the above.

Mr. Ingersoll also agreed to send you copies of map showing the Ryden Property workings as set out in the Anaconda Report, which I am hoping will further support our Terra Cotta Application.

By the way, Mr. Joseph F. McAleer is a staff geologist with The Anaconda Company and working with Bob Ingersoll from time to time on our project.

Yours very truly,

/s/ A. J. Katches

A. J. Katches

AJK
encl.

RECEIVED
DEC 9 1966

Mr. Joseph F. McAleer
2742 Princeton
Butte, Montana

Mr. J. A. Katches

Dear Jay:

I have sketched a composite map of the shafts in relation to tunnel No. 2, on the enclosed print. From these shafts and tunnel No. 1, I have projected the vein downward to the elevation of tunnel No. 2. These projections appear as dashed veins on the sketch. As you can see, the currently advancing crosscut is nowhere near the vein. Therefore, I suggest that you abandon this heading. Instead, I recommend that you extend the second crosscut for 60 feet in a S 56° E direction. This recommendation is labeled "proposed crosscut" in the enclosed sketch. This work should cut the vein structure and allow you to drift on it toward the shafts.

I will give Bob Ingersoll a copy of this sketch so that he may transfer this information to the original tracing at a later date.

Sincerely,

Joseph F. McAleer

Joseph F. McAleer

6523

JANUS MINING COMPANY

VIRGINIA CITY MONTANA

October 22, 1966

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington, D. C.

Re: OME 6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Johnson:

I acknowledge with many thanks your prompt reply to my letter of October 3, 1966, and am most pleased to learn that your Field Officer, Mr. MacLaren will contact us regarding the subject applications.

Sincerely yours,

JANUS MINING COMPANY

A. J. Katches

OFFICIAL FILE COPY

Date	Surname	Code
10/10		110
10/10/66	Kirkham	120
		220

Memorandum

OCT 10 1966

To: Field Officer, OME Region I

FROM: Chief, Office of Minerals Exploration

Subject: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

The subject applications are being sent to you for review and possible field examinations, if deemed necessary.

Copies of the supplemental information (maps and assay certificates) furnished this office have been sent to you according to the applicant. Other necessary information as to geologically favorable targets, cost estimates, equipment to be used, Operator's interest in the land (Leases and Lien and Subordination Agreements) referred to in our letter of December 28, 1965, to the Applicant, and discussed with Mr. Katchas, have not been received. However, further discussions between you and Mr. Katchas and Mr. R. G. Ingersoll may bring forth the required information.

We believe that if the properties warrant further exploration, work should be concentrated on one or two of the more favorable targets, and that efforts should not be dissipated by spreading the work over several different properties.

If your recommendations are favorable, the required information for preparing contracts should be obtained. It would be preferable in this case, that all the exploration be covered by one contract and not under several contracts, if possible.

FRANK H. JOHNSON

Frank H. Johnson

cc: Director's reading file
Division file
Economic Geology file
OME file (4 dockets)
OME reading file
OME-130

FHJohnson/bih 10/10/66

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
10/10		110
10/10/66	Kirkemo	120
10/10	Cal	220

OCT 10 1966

Mr. A. J. Katches
Janus Mining Company
Virginia City, Montana

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katches:

Thank you for your letter of October 3, 1966, submitting supplemental information relating to the subject application.

We note that you have sent a set of the maps and assay certificates enclosed in your letter to Mr. D. R. MacLaren. Although you have not furnished the other information necessary to process your applications, mentioned in our letter to you of December 28, 1965, and discussed with you on visits to my office, we are referring these applications to Mr. MacLaren for possible field examinations of the properties involved. Mr. MacLaren will contact you in this regard and discuss with you any additional information that may be required.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's reading file
Division file
Economic Geology file
OME file (4 dockets)
OME reading file
OME Region I

FEJohnson/bih 10/10/66

23263

JANUS MINING COMPANY

VIRGINIA CITY MONTANA

October 3, 1966

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington, D. C.

RE: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Johnson:

I respectfully submit herewith supplemental information as requested relating to the subject applications. Two sets or copies are enclosed for your office and one set of the information has been forwarded to Mr. D. R. Maclaren, per his request.

I am hoping the assembled factual data meets with your approval as projected on Mr. P. G. Incerstill's maps along with copies of the assay certificates.

Sincerely yours,

JANUS MINING COMPANY

A. J. Karches

Rec'd. 10/6/66
Enclosures
see left file

CC: Mr. D. R. Maclaren
(One set of maps and
assay certificates)

GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane, Washington 99204
September 30, 1966

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Consultations were held with A. M. Katches, Manager, and Robert Ingersoll, ACM Geologist, Consultant, in Virginia City, Montana, and on each of the subject properties September 19 and 20, 1966. Ken Weir, Geological Survey, was also present and most helpful in getting across to Katches precisely what map and sample data we require in order to proceed with processing his applications. Most of the information is available in Katches' or Ingersoll's files, but due to the requirements of his work for ACM, Ingersoll has not transferred it to the respective maps. He plans to devote the next 2 or 3 weekends to this work and the preparation of geologic maps of 4 new tunnels that have already been started.

It is recommended that the applicant be given reasonable additional time to submit this data.

D. R. MacLaren

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/2	Kirkham	120
		110
		220
		120M

Mr. A. J. Katchas
Janus Mining Company
Virginia City, Montana

Re: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Ely Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katchas:

To date, we have not received an answer to our letters of February 23 and May 4, 1966, to you concerning the subject applications.

We wish to cooperate with you in allowing ample time to furnish the information necessary to processing your applicati ns; however, we cannot indefinitely postpone action on an application. Therefore, if we do not receive the requested data within thirty days from the date of this letter, we shall consider the applications as having been withdrawn.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
4 OME dockets
OME Region I
OME Reading File

GLAult/a 8-2-66

23263

OFFICIAL FILE COPY

Date	Surname	Code
		110
		120
		220
		1201

Mr. A. J. Ketchum
Jesse Mining Company
Virginia City, Montana

Re: GMX-6520 (Silver-Gold)
Jesse Mining Company
Jesse Group
Madison County, Montana

GMX-6521 (Silver-Gold)
Jesse Mining Company
Latchstring Group
Madison County, Montana

GMX-6522 (Silver-Gold)
Jesse Mining Company
Nellie Bly Group
Madison County, Montana

GMX-6523 (Silver-Gold)
Jesse Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Ketchum:

On February 23, 1966, we wrote you outlining certain information which was necessary to continue the processing of your application. To date, we have not had a reply to our letter. Will you please inform us of your plans regarding the application. If you have decided not to pursue it further, will you please so inform us.

Sincerely yours,

(RA)

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
GMX Reading File
Region I

Dockets, GMX-6520, 6521, 6522, 6523

Mincritchow/km (5/3/66)

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
2/21	Johnson	110
	Gelfenbaum	120
		220
		120M

Mr. A. J. Katchas
Janus Mining Company
Virginia City, Montana

Re: [redacted]-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

[redacted]-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

[redacted]-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

[redacted]-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Katchas:

This is with reference to your letter of February 16, 1966, delivered in person by you, in reply to our letter of December 24, 1965, and our discussions on February 15, 16, and 17 relating to the subject applications.

As I informed you during our discussions, the information in your letter is too general in nature for our purposes and does not furnish any factual data to support your proposals.

As no information indicating favorable geologic targets or assay data were submitted with your applications, we suggested in our letter of December 24, 1965, that the shallow surface workings on the properties to be explored be cleaned out, and representative samples taken of the mineralization and assayed. It was not our intention that such work should be done on neighboring properties or that additional property be acquired.

23263

In our discussions you stated that you had done considerable surface work on your properties and had assay data on samples of the mineralization exposed by this work. You further stated that you had not furnished this information because you believed Mr. R. G. Ingersoll would make other similar information available to the Field Officer if he visited Butte, Montana. As I explained to you, however, we should be furnished factual geologic and assay data on the properties in order to properly evaluate your proposals and determine if a field examination is warranted. This could be done by showing the general geology on a copy of the claim map submitted with each application. The veins known to occur on these claims should be traced on these maps, indicating the approximate locations of any surface cuts, pits, or trenches exposing the veins. The strike and dip readings of the veins at each exposure should also be shown on the maps. Also, the locations, widths, and assays for each sample taken of the veins exposed should be indicated on the maps. Assays should be supported by copies of assay certificates.

Upon receipt of this information which you stated as being available, we will be in a position to promptly continue the processing of your applications.

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc to: Director's Reading File
Division File
Economic Geology File
OME Dockets 6520, 6521, 6522, and 6523
OME Region I w/cy incoming letter
OME Reading File

FEJohnson/bih/gla 2-21-66

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

Personal

February 16, 1966

Mr. Frank E. Johnson
Chief, Office of Mineral Exploration
United States Department of the Interior
Washington 25, D. C.

RE: OME-6520 (Silver-Gold)
Janus Mining Company
Janus Group
Madison County, Montana

OME-6521 (Silver-Gold)
Janus Mining Company
Latchstring Group
Madison County, Montana

OME-6522 (Silver-Gold)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

OME-6523 (Silver-Gold)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Dear Mr. Johnson:

Thank you for the opportunity of meeting with you in your office, at which time we discussed thoroughly your letter of December 28, 1965, wherein additional information was requested in order for your office to proceed with our applications. I respectfully submit Mr. R. G. Ingersoll's comments relative to the information requested, as follows:

The following comments are written in answer to some of the requests submitted to the Janus Mining Company on December 23, 1965, by the Office of Minerals Exploration, Geological Survey, United States Department of the Interior.

The four silver exploration applications submitted by the Janus Mining Company (Government numbers OME-6520 through OME-6523) are for financial assistance for work to be done in four areas along the Alder Creek drainage. The exploratory crosscutting and drifting to be done in each area is designed to expose at depth structures which, near or at the surface, were ore-bearing.

Specifically, the Latchstring Group (OME-6521) work is designed to explore along strike and at depth the mineralized structure which the Bartlett property mined. At one point in the exploitation of the Bartlett claim, geologists from The Anaconda Company were given permission to map and sample the underground workings (1936). The Anaconda Company was not involved in any work in the area. Shipments of ore from the Bartlett structure were made over a period of time to the Anaconda Reduction Works, Anaconda, Montana. These records of tonnage and grade are on file and are probably accessible.

Incomplete figures cited in the original application show over 8700 tons of ore shipped. On the basis of these ore shipments, the exploratory work north of the Bartlett claim was advised. The old Bartlett underground workings are presently inaccessible to mapping or sampling. The amount of development along the structure and the areal location of stoping involved in the tonnages shipped is unknown and, in all likelihood, no accurate picture of the development and mining was made.

Cost figures for re-opening vary greatly and are dependent upon many factors, among them being the amount of sluffed rock to be moved and the amount of support--rock bolts, timber, spiling--needed. Frequently the cost of re-opening approaches that of new development. In the case of the Bartlett claim as it pertains to the Latchstring Group, this property is not even owned by the Janus Mining Company, and therefore is not available for examination of re-opening. This exploration program was laid out to prospect the structure beyond the Bartlett claim line, and ownership of the Bartlett claim was not deemed warranted for the venture. With actual shipment information available, an expensive claim purchase and a re-opening and sampling program would only verify the existence of structure and ore.

Development work designed to crosscut and drift structures of the Nellie Bly Group of claims (OME-6522) is primarily based on the near-surface exposures of the mineralized structure along with the Nellie Bly claim is located. Shallow shafts together with adits and some stoping have exposed the structure for several hundred feet laterally. These old workings are partly accessible and show strong clays and persistent quartz and iron oxide mineralization. Dip and strike of the Nellie Bly mineralized fissure as determined from the old workings are shown on the plan and cross-section of the proposed exploratory work. The geologic target for this group of claims is 300 to 400 feet below the near-surface underground workings on this structure. This distance is relatively shallow. The Easton-Pacific mine located in Brown's Gulch immediately west of Alder Gulch was in ore at a depth between 700 and 800 feet as reported in the U.S. Bureau of Mines Information Circular No. 6972, dated November, 1937.

Exploratory underground work on the Terra Cotta Group of claims (OME-6523) is designed to crosscut and drift the extension of a structure which, several hundred feet north, has been exposed by a number of prospect pits and several shallow adits and drifts. Here, as in the case of the Bartlett structure, the claims on which exploration has taken place are not owned by the Janus Mining Company. At the time of application to OME, ownership along the entire length of a structure was not considered necessary to obtain favorable consideration for financial assistance. The geologic target on the Terra Cotta Group is one persistent structure, a close neighbor to an ore-bearing fissure, the Mr. Cache vein, which reportedly produced a half million dollars. Ore or oreshoots along the Terra Cotta structure cannot be pinpointed either as to location or size. The exploration program as laid out is to drift the structure for 500 feet in search of expected ore shoots.

Proposed work on the Janus Group of claims (OME-6520) is purely exploratory. All of the work will be carried out on the west side of Alder Gulch, across from the Nellie Bly Group of claims. The geologic targets are the faulted segments or extensions of ore bearing veins found in the Nellie Bly Group claims. The proposed work is immediately across the gulch because structures mapped farther up Alder Gulch show very little offset from one side of the gulch to the other.

To fulfill the demands of OME, a large expenditure of money will have to be made to buy additional claims and re-open hundreds of feet of underground workings. However, some weight should be given by that office to the ore shipments cited in the original applications (certainly proof of ore-bearing structures) and to the descriptions of various properties and production figures in the Virginia City Mining District as written up in U. S. Geological Survey Bulletin No. 574 and U. S. Bureau of Mines Information Circular No. 6972.

Reference is made to your request for a change in the mineral leases to cover at least a ten year period, rather than a year to year basis. Wish to advise that present leases are continued on a year to year basis as long as rents or advance royalty payments are paid annually. Therefore, we feel that these leases are valid for an indefinite period, which could be ten years or longer. However, if there is a problem in this form of lease, we could obtain a longer term lease, which would also be subject to cancellation by the property owners if the annual payments were not made. The Lein and Subordination Agreements can be obtained and submitted at such time as evidence of exploration contracts can be secured.

Because of the more than reasonable probability of the significant discovery of ore, we have therefore since the date of filing the applications in your office November 23, 1965, proceeded with the proposed development work as outlined in our applications on the Janus Group, OME-6520; Nellie Bly Group OME-6522; and the Terra Cotta Group OME-6523.

February 16, 1966

Wish to advise our progress as follows: Janus [illegible] 15 feet of tunnel completed, with timbering; Nellis [illegible] Group, 12[illegible] feet of tunnel completed with timbering; Torres [illegible] Group [illegible]6 feet of tunnel completed with timbering. We are proceeding with the development work of the above properties continuously on a single shift basis. Work on the Lariatstring Group OME-6521 will begin in the near future. We consider work performed to date on these properties most beneficial and information obtained most valuable, therefore, supporting future development. I might add that all properties and workings are accessible for examination.

We would appreciate an early reply and favorable consideration for financial assistance and help from the Office of Minerals Exploration.

Sincerely yours

JANUS MINING COMPANY

A. [illegible]

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
12/28	Johnson	110
	Delfordgo	120
		220
		120M

Janus Mining Company

Virginia City, Montana

Re: OME-6520 (Gold-Silver)
Janus Mining Company
James Group
Madison County, Montana

- - -

OME-6521 (Gold-Silver)
Janus Mining Company
Latchstring Group
Madison County, Montana

- - -

OME-6522 (Gold-Silver)
Janus Mining Company
Nellie Bly Group
Madison County, Montana

- - -

OME-6523 (Gold-Silver)
Janus Mining Company
Terra Cotta Group
Madison County, Montana

Gentlemen:

A careful review has been made of each of the four applications for financial assistance to explore four separate groups of mining claims in Madison County, Montana, submitted by the Janus Mining Company.

These reviews reveal that the four applications are more or less of the same nature, with proposals to crosscut to and drift along projected extensions of veins at depth. The proposals lack evidence of specific favorable geologic target areas. Although we were informed that the Anaconda Company has performed considerable work in the area and that Mr. R. G. Ingersoll, on the staff of Anaconda, would make available to the OME representative pertinent information in the Anaconda files at Butte to support the applications, there are no geological or mineralogical data in the applications to support the proposals. Also, it is indicated that the Applicant has performed no work on the properties and that most of the old workings are inaccessible.

23263

In order for us to continue processing the applications, it will be necessary that we have additional information. Structures should be exposed by cleaning out old surface workings. Evidence of the existence of faults and veins, giving dips and strikes, as well as assay data, showing the locations of representative samples taken from vein exposures on the properties, with their widths and assay values, are required. The information submitted indicates that the dollar value of the mineralization found in the area is principally in gold. Also, evidence to support the expectation of finding ore at depth is not included.

In the cost estimates submitted, lists of equipment to be used on the proposed projects are included and charged off to the respective projects. Under the OME program, if an operator owns the equipment, the fair market value of the equipment less salvage is used in estimating costs. As a charge against the exploration project, this value is amortized on a five-year basis and 1/60 of the value allowed for each month of actual use. If the equipment is rented, a rental allowance of a comparable amount is used. Consequently, the cost per foot for equipment used on a project would be considerably less than estimated in the applications.

Some of the properties are held under leases on a year-to-year basis. It would be necessary to change these leases to cover at least a ten-year period before exploration contracts could be executed. Also, Lien and Subordination Agreements would be required from all of the parties who have been assigned royalties to secure operating capital in the event a contract could be granted.

It is necessary that we have sufficient information to warrant trips and examinations of the properties. Unless the information and the vein exposures are made accessible for investigation, there would be no point in having an OME representative examine the projects or visit Butte to examine the pertinent data in the Anaconda files.

Upon receipt of the information requested, we will be in a position to promptly proceed with these applications. This request for additional information should not be construed that contracts will be granted.

Sincerely yours,

FEJohnson/gla (12-28-65)
cc to: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
OME Region I

(Signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

JANUS MINING COMPANY
VIRGINIA CITY, MONTANA

(Dated at Washington, D.C.)
November 24, 1965

Mr. Frank [illegible], Director
Office of Mineral Exploration
Department of the Interior
Washington, D.C.

Dear Mr. [illegible]:

Relative to our meeting in your office on November 23rd, wish to advise that in addition to the information and data contained in our Application for Financial Assistance in Mineral Exploration, Mr. R[illegible] Ingersoll, our Consulting Geologist on the staff of the Anaconda Co., Butte, Montana, did advise that he is willing to meet in his office with persons officially related to the Office of Mineral Exploration, at which time he would make available pertinent information contained in the Anaconda files, such as geological reports, evaluations, reports and such other information which will, in furtherance, support information [illegible] in application.

Yours truly,

A. J. Kat[illegible]

November 23, 1965

Janus Mining Company
Virginia City, Montana

Subject: OME - 6523
Terra Cotta Group

Gentlemen:

Your application for exploration assistance, dated November 18, 1965, submitted to our office at Washington, D. C., has been assigned Docket No. OME-6523.

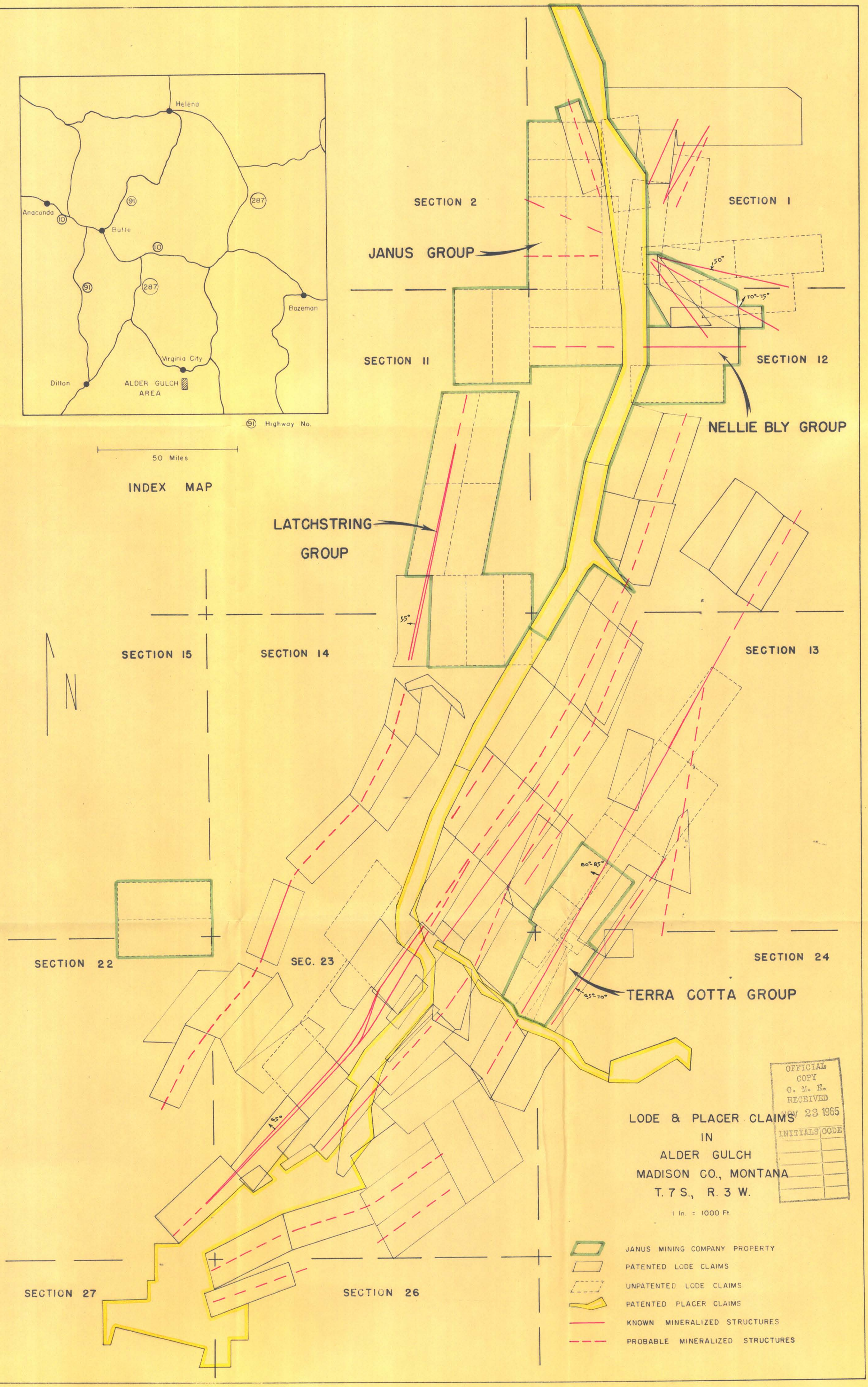
Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to Region I with
copy of application

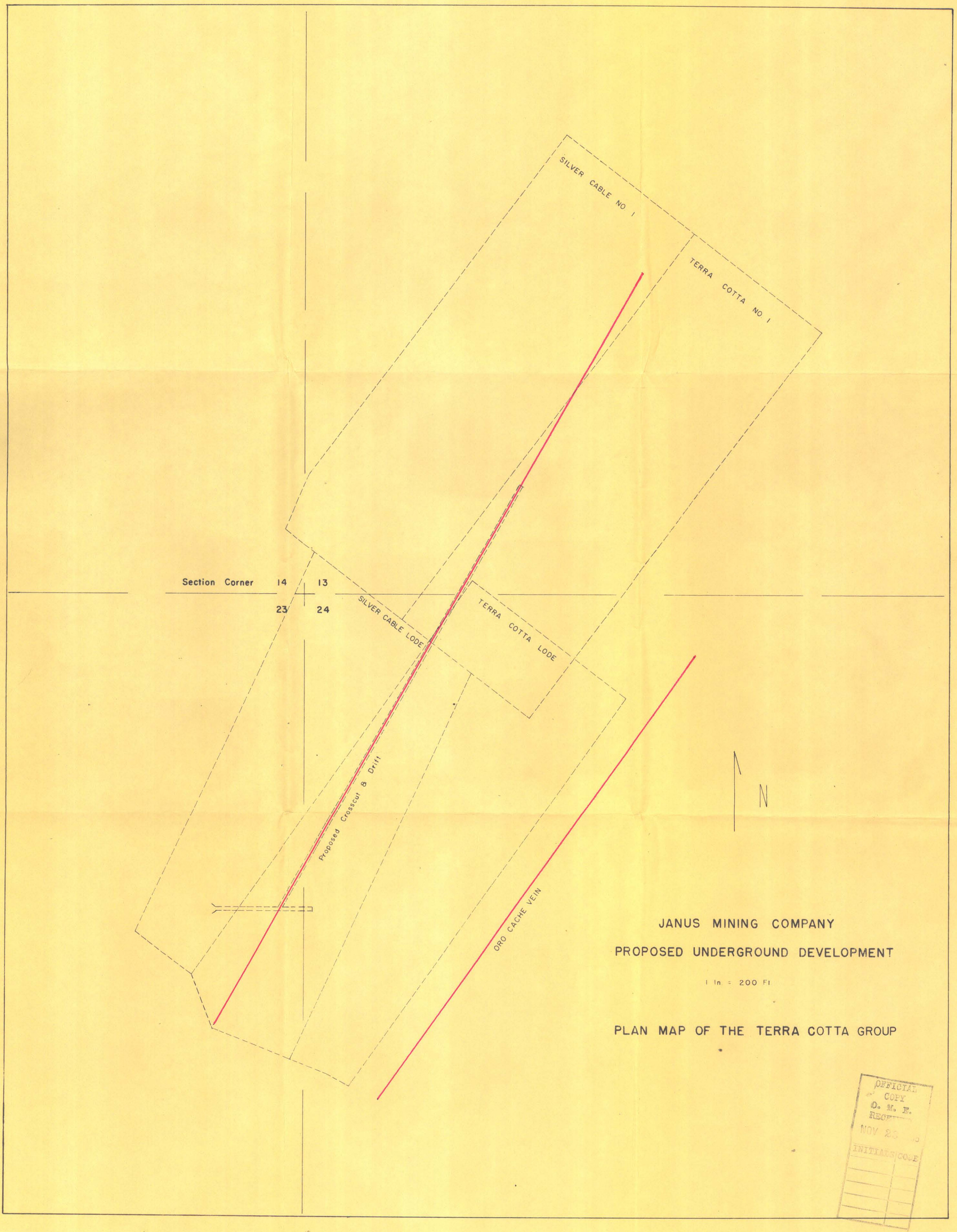
INDEX MAP



LODE & PLACER CLAIMS
IN
ALDER GULCH
MADISON CO., MONTANA
T. 7 S., R. 3 W.

1 In. = 1000 Ft.

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 23 1965
INITIALS | CODE



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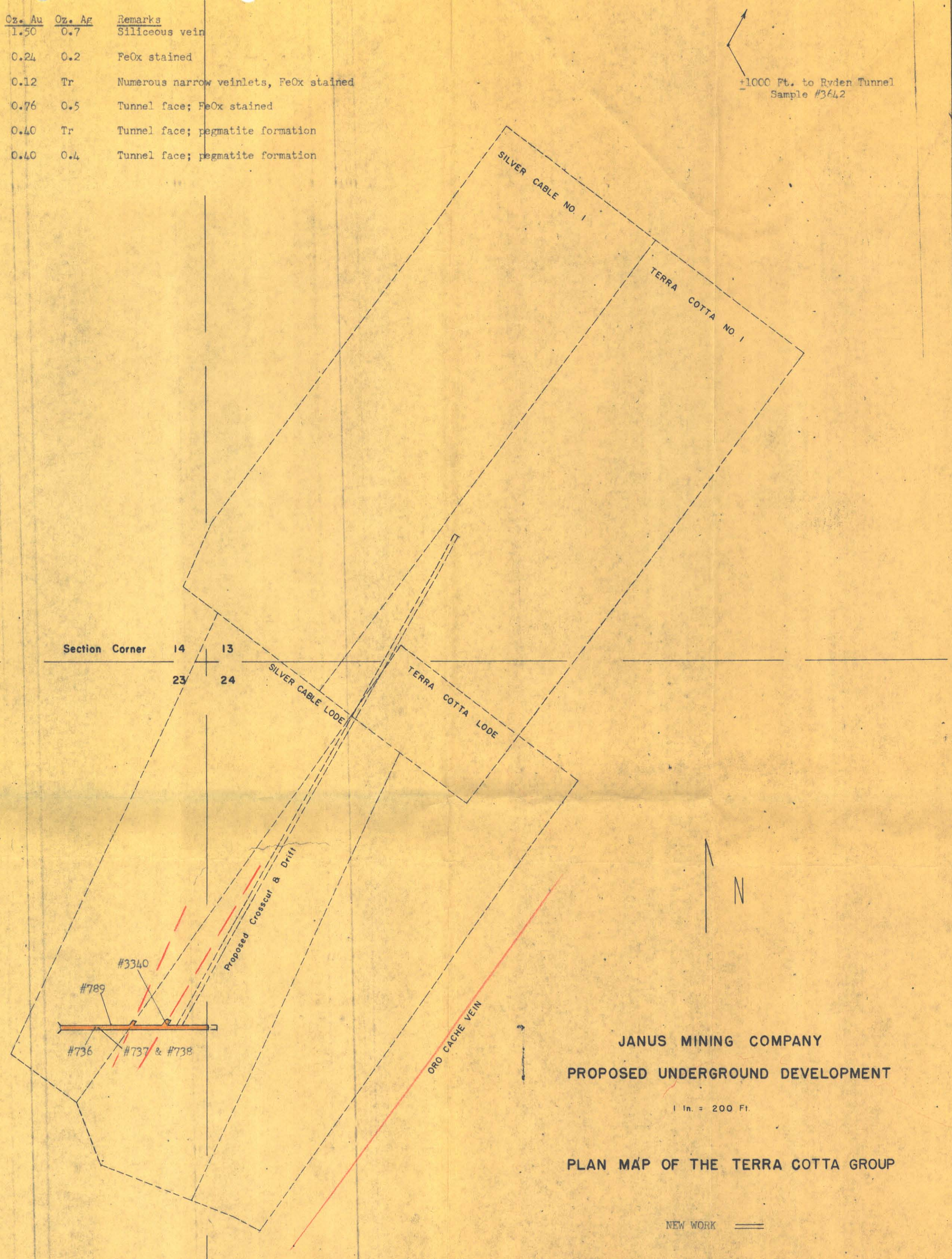
O. M. F.
RECEIVED
NOV 23
INITIALS CODE

Sample No.	Width	Oz. Au	Oz. Ag	Remarks
3642	2"	1.50	0.7	Siliceous vein
3340	4'	0.24	0.2	FeOx stained
789	7'	0.12	Tr	Numerous narrow veinlets, FeOx stained
736	6'	0.76	0.5	Tunnel face; FeOx stained
737	6'	0.40	Tr	Tunnel face; pegmatite formation
738	6'	0.40	0.4	Tunnel face; pegmatite formation



JANUS MINING COMPANY

PROPOSED UNDERGROUND DEVELOPMENT

1 In. = 200 Ft.

PLAN MAP OF THE TERRA COTTA GROUP

NEW WORK

OME-6523

Recd. 10/6/66
Letter 10/3/66