REFERENCE REQUEST—FEDERAL RECORDS CENTERS

NOTE: Use a separate form for each request.

SECTION I—TO BE COMPLETED BY REQUESTING AGENCY

RECORD GROUP NO.	ACCESSION NO.	AGENCY BOX NUMBER	RECORDS CENTER LOCATION NUMBER
	70A2337	5T OF	14/52:32-1

DESCRIPTION OF RECORD(S) OR INFORMATION REQUESTED *(Include file number and title.)*

DMEA 3866

American Smelting and Refining Co.

REMARKS Keystone Mine

NATURE OF SERVICE

☐ FURNISH COPY OF RECORD(S) ONLY ☐ PERMANENT WITHDRAWAL ☐ TEMPORARY LOAN OF RECORD(S) ☐ REVIEW ☐ OTHER *(Specify)*

NAME OF REQUESTER	TELEPHONE NO. ☐ FTS	DATE
[illegible]	234-2951	2-18-83

NAME AND ADDRESS OF AGENCY *(Include street address, building, room no. and ZIP Code)*

U.S. Geological Survey
Box 25046
Denver Federal Center
(In Washington, D.C. area also include STOP number) Mail Stop 933
Denver Colo
80225

RECEIPT OF RECORDS

Requester please sign, date and return this form, for file item(s) listed above, *ONLY* if the block to right has been checked by the Records Center. ☐

SIGNATURE | DATE

SECTION II—FOR USE BY RECORDS CENTER

☐ RECORDS NOT IN CENTER CUSTODY ☐ RECORDS DESTROYED

☐ WRONG BOX NUMBER—PLEASE RECHECK

☐ ADDITIONAL INFORMATION REQUIRED TO IDENTIFY RECORDS REQUESTED

☐ MISSING *(Neither record(s), information nor charge card found in container(s) specified)*

☐ RECORDS PREVIOUSLY CHARGED OUT TO *(Name, agency and date)*:

REMARKS FREEDOM OF INFORMATION ACT REQUEST

DATE	SERVICE	TIME REQUIRED	SEARCHER'S INITIALS
2-24			JH

SECTION III—TO BE COMPLETED BY REQUESTING AGENCY

TO General Services Administration
Federal Records Center NARS

(City) (State) (Zip Code)

NOTE: In Washington, D.C. area send to STOP 386

5011-106 NSN 7540-00-682-6423 *PREVIOUS EDITION USABLE*

OPTIONAL FORM 11 (Rev. 9-79)
Prescribed by GSA, FPMR (41 CFR) 101-1104

AGENCY SUSPENSE FILE COPY

Keystone Unit

American Smelting & Refining Company

Docket: DMEA 3866

Contract: No. Idm E 903

Calculation of Royalty

Lot No. D-30 Oct. 1964

from

Oct 1964 Production

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		5362			
Lead Concr	5.96	319.58	$189.83	$60665.87	
Zinc Concr	9.67	518.51	53.88	27937.32	
Total				$88603.19	$4430.16

Keystone Unit

Docket: DMEA. 3866
Contract: No. Idm E 903

Concentrate Liquidated During Month of October 1964

Lead Conct.

Lot No.	Tons	Net Smelter Value
B-98-55	63.4550	$12 082.08
B-99-56	63.8575	11 370.83
B-100-57	70.3965	13 196.34
B-101-58	65.9115	10 408.31
B-102-59	70.1835	12 243.66
B 103-60	66.1165	11 759.88
B-104-61	69.2930	13 253.41
B-105-62	Pending	-
B-106-63*	64.1965	13 740.83
B-106-63*	66.2570	14 292.63
B-107-64	70.3765	14845.65
Total	670.0435	$127193.62
Avg.	$189.83/ton.	

Zinc Conct.

Lot No.	Tons	Net Smelter Value
B-136-80	67.7160	$3317.00
B-137-81	89.0665	4367.22
B-138-82	68.0375	3255.09
B-139-83	60.4990	2988.53
B-140-84	67.2450	3326.90
B-141-85	62.5265	2409.10
B-142-86	66.9895	3440.52
B-143-87	64.3840	3270.47
B-144-88	67.4140	3598.06
Addn'l	-	3105.00
Total	613.8780	$33077.89
Avg.	$53.88/ton.	

N.B.: $6.00/s.d.t. Truck Transportation allowance has NOT been deducted from Net Smelter Values shown above.

* One of these lots should probably be B-105-62.

AMERICAN SMELTING AND REFINING COMPANY
WESTERN MINING DEPARTMENT
600 CRANDALL BUILDING
SALT LAKE CITY 1, UTAH

J. F. FROST
MANAGER

OFFICIAL FILE COPY
O. M. E
RECEIVED
DATE

October 27, 1964

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 8040 in your favor in the amount of $2668.79. This is royalty payment on Lot D-29 from September 1964 production from ground covered by the DMEA contract.

Yours very truly,

Original signed by
H. E. FROST
J. F. FROST

JFF:bm
Encl.
cc: H.M.Connors (extra)
C.E.Nelson)
T.A.Snedden) w/encls.
H.L.Goodenough)
H.W.Grose)
L.K.Nicholson,Jr.)

Keystone Unit

American Smelting & Refining Company

Docket: D.M.E.A. 3866
Contract: No. Idm E 903

Calculation of Royalty

Lot No. D-29 Sept. 1964
from
Sept. 1964 Production

	% wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		2880.			
Lead Conct	7.63	219.74	$178.97	$39326.87	
Zinc Conct	8.85	254.88	$55.12	14 048.99	
Total				$53 375.86	$2668.79

688

Keystone Unit

Docket: DMEA. 3866
Contract: No. Idm E 903

Concentrate Liquidated During Month of Sept. 1964

Lead Conct.

Lot No.	Tons	Net Smelter Value
B-94-51	66.4105	$11,099.65
B-95-52	70.7850	11,879.10
B-96-53	75.7165	15,390.29
B-97-54	63.7975	11,153.20
Total	276.7095	$49,522.24
Avg.		$178.97/ton.

Zinc Conct.

Lot No.	Tons	Net Smelter Value
B-127-71	70.3890	$3401.75
B-128-72	62.2190	3049.06
B-129-73	67.5600	3239.64
B-130-74	65.8450	3157.62
B-131-75	63.8675	3191.91
B-132-76	61.4535	3134.89
B-133-77	63.6915	3215.82
B-134-78	63.7715	3190.37
B-135-79	67.7855	3426.43
Addi't		3326.45
Total	586.5825	$32,333.94
Avg.		$55.12/ton.

N.B.: $6.00/s.d.t. Truck Transportation allowance has NOT been deducted from Net Smelter Values shown above.

AMERICAN SMELTING AND REFINING COMPANY
WESTERN MINING DEPARTMENT
415 CRANDALL BUILDING
SALT LAKE CITY, UTAH, 84101

ASARCO
J. F. FROST
MANAGER

September 16, 1964

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 7755 in your favor in the amount of $2809.58. This is royalty payment on Lot D-28 from August 1964 production from ground covered by the DMEA contract.

Yours very truly,

J. F. FROST

JFF:bm
Encl.
cc: H.M.Connors (extra)
C.E.Nelson)
T.A.Snedden) w/encls.
H.L.Goodenough)
H.W.Grose)
L.K.Nicholson,Jr.)

Keystone Unit

American Smelting & Refining Company

Docket: D.M.E.A. 3866
Contract: No. Idm E 903

Calculation of Royalty

Lot No. D-28 Aug. 1964
from
August 1964 Production

	% wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		3593.			
Lead Conct	6.47	232.47	$171.75	$39926.72	
Zinc Conct	8.30	298.22	54.54	16264.92	
		Total		$56 191.64	$2809.58

ama

Keystone Unit

Docket: D.M.E.A. 3866
Contract: No. Idm E 903

Concentrate Liquidated During Month of August 1964

Lead Conct.

Lot No.	Tons	Net Smelter Value
B-87-44*	–	–
B-86-43 (1934)*	70.0235	$13349.15
B-88-45	62.0750	10246.99
B-89-46	71.2415	13213.08
B-90-47	67.5585	11533.08
B-91-48	66.5620	11442.46
B-92-49	64.1385	10995.67
B-93-50	69.5980	10148.82
Total	471.1970	$80929.25
Avg./ton		$171.75

*Mixup of lot numbers.

Zinc Conct.

Lot No.	Tons	Net Smelter Value
B-119-63	70.8040	$3529.17
B-120-64	72.2715	3574.07
B-121-65	50.8920	2444.31
B-122-66	62.3390	3029.95
B-123-67	62.2920	3093.31
B-124-68	61.9690	2961.78
B-125-69	63.7265	3120.57
B-126-70	60.4790	2855.10
Addit.	–	2914.43
Total	504.7730	$27528.69
Avg./ton		$54.54

N.B.: $6.00/s.d.t. Truck Transportation allowance has NOT been deducted from Net Smelter Values shown above.

AMERICAN SMELTING AND REFINING COMPANY
WESTERN MINING DEPARTMENT
415 XXXXCRANDALL BUILDING
SALT LAKE CITY 1, UTAH

J. F. FROST
MANAGER

August 31, 1964

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 7647 in your favor in the amount of $2316.42. This is royalty payment on Lot D-27 from July 1964 production from ground covered by the DMEA contract.

Yours very truly,

Original signed by
J. F. FROST
J. F. FROST

JFF:bm
Encl.
cc: H.M.Connors (extra)
C.E.Nelson)
T.A.Snedden) w/encls.
H.L.Goodenough)
H.W.Grose)
L.K.Nicholson,Jr.)

Keystone Unit

American Smelting & Refining Company

Docket: D.M.E.A. 3866
Contract: No. Idm E 903

Calculation of Royalty

Lot No. D-27 July 1964
from
July 1964 Production

	% wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		2992			
Lead Concr	7.16	214.23	$157.35	$33 709.09	
Zinc Concr	8.93	267.19	47.23	12 619.38	
		Total		$46 328.47	$2316.42

Jama

Keystone Unit

Docket: D.M.E.A. 3866
Contract: No. Idm E 903

Concentrate Liquidated During Month of July 1964

Lead Concr.

Lot No.	Tons	Net Smelter Value
B-75-33*	72.4775	$7037.54
B-78-35*	66.9220	10820.80
B-77-35*	68.1705	11619.42
B-79-36	71.1240	11043.75
B-80-37	64.8220	11729.82
B-81-38	74.7870	12843.18
B-82-39	71.1040	11587.49
B-82-83*	71.2970	11468.75
B-84-41	70.1140	12964.44
B-85-42	56.5815	7637.08
B-86-43	60.1735	8878.79
Total	747.5730	$117631.06
Avg/ton.		$157.35

Zinc Concr.

Lot No.	Tons	Net Smelter Value
B-109-53	65.9100	$3167.59
B-110-54	67.3970	3182.59
B-111-55	57.6580	2758.68
B-112-56	66.5110	3133.48
B-113-57	63.5285	2988.23
B-114-58	66.2830	3138.99
B-115-59	65.6960	3048.72
B-116-60	57.7090	2636.09
B-117-61	62.1025	2992.61
B-118-62	59.7825	2832.03
Total	632.5775	$29879.01
Avg/ton.		$47.23

* Continued mixup of lot numbers.

N.B.: $6.00/s.d.t. Truck Transportation allowance has NOT been deducted from Net Smelter Values shown above.

OFFICIAL FILE COPY.
O. M. E.
RECEIVED SEP 14 1964

DATE	INITIALS	CODE

AMERICAN SMELTING AND REFINING COMPANY
WESTERN MINING DEPARTMENT
415 ~~8XX~~ CRANDALL BUILDING
SALT LAKE CITY 1, UTAH

J. F. FROST
MANAGER

July 22, 1964

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 7358 in your favor in the amount of $2318.01. This is royalty payment on Lot D-26 for June production from ground covered by the DMEA contract.

Yours very truly,

Original signed by
J. F. FROST
J. F. FROST

JFF:gc
Encl.
cc: H.M.Connors (extra)
C.E.Nelson)
T.A.Snedden) w/encls.
H.L.Goodenough)
H.W.Grose)
L.K.Nicholson,Jr.)

Keystone Unit

American Smelting & Refining Company

Docket: D.M.E.A. 3866
Contract: No. Idm E 903

Calculation of Royalty

Lot No. D-26 June 1964
from
June 1964 Production

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		2913.			
Lead Conct	7.07	205.95	$ 166.88	$34368.94	
Zinc Conct	8.65	251.97	47.59	11991.25	
		Total		46 360.19	$2318.01

Keystone Unit

Docket: DMEA 3866
Contract: No. Idm E 903

Concentrate Liquidated During Month of June 1964

Lead Conct.

Lot No.	Tons	Net Smelter Value
B-72-29*	-	-
B-72-30	74.4095	$14269.59
B-73-31	68.3765	11427.38
B-74-32	70.6805	10683.29
B-76*-33	70.2420	10965.90
Total	283.7085	$47346.16

Avg./ton $166.88

Zinc Conct.

Lot No.	Tons	Net Smelter Value
B-101-45	54.3290	$2570.94
B-102-46	63.9925	3029.79
B-103-47	61.4385	3072.86
B-104-48	63.7630	3009.48
B-105-49	69.6205	3154.87
B-106-50	67.3225	3216.71
B-107-51	67.6395	3049.18
B-108-52	64.4525	3290.11
Total	512.5580	$24394.14

Avg./ton $47.59

* Lot numbers again fouled-up.

N.B.: $6.00/s.d.t. Truck Transportation allowance has NOT been deducted from Net Smelter Values shown above.

OME
DEPARTMENT OF THE INTERIOR

JUL 1 1964
REGION III
DENVER, COLORADO

June 30, 1964

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 7238 in your favor in the amount of $3518.55. This is royalty payment on Lot D-25 for May production from ground covered by the DMEA contract.

Yours very truly,

Original signed by
J. F. FROST
J. F. FROST

JFF:bm
Encls
cc: H.M.Connors (extra)
C.E.Nelson)
T.A.Snedden) w/encls.
H.L.Goodenough)
H.W.Grose)
L.K.Nicholson,Jr.)

Keystone Unit

American Smelting & Refining Company

Docket: D.M.E.A. 3866
Contract: No. Idm E 903

Calculation of Royalty

Lot No. D-25 May 1964
from
May 1964 Production

	% wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore	~~3505~~	3505.			
Lead Conct	7.04	246.75	$223.18	$55069.67	
Zinc Conct	8.99	315.10	$48.56	15301.26	
Total				$70370.93	$3518.55

Keystone Unit

Docket: DMEA 3866
Contract: No. Idm E 903

Concentrate Liquidated During Month of May 1964

Lead Conct.

Lot No.	Tons	Net Smelter Value
B-67-24	62.6150	$13 356.16
B-68-25	65.8665	15 581.76
B-69-26	68.3270	16 004.55
B-70-27	72.1930	15 094.43
B-71-28	75.9565	16 949.65
Total	344.9580	$76 986.55
Avg./ton		$223.18

Zinc Conct.

Lot No.	Tons	Net Smelter Value
B-92-36	67.7010	$3284.12
B-93-37	62.9500	3004.71
B-94-38	63.8215	3110.70
B-95-39	67.0055	3363.74
B-96-40	63.5525	3199.40
B-97-41	66.1060	3297.13
B-98-42	70.5365	3191.49
B-99-43	66.8110	3161.96
B-100-44	62.7645	3096.15
Total	591.2485	28709.40
Avg./Ton		$48.56

N.B.: $6.00/s.d.t. Truck Transportation allowance has NOT been deducted from Net Smelter Values shown above.

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUL 6 1964

DATE	INITIALS	CODE

AMERICAN SMELTING AND REFINING COMPANY
WESTERN MINING DEPARTMENT
415 CRANDALL BUILDING
SALT LAKE CITY 1, UTAH

J. F. FROST
MANAGER

June 16, 1964

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 7153 in your favor in the amount of $3,658.27. This amount is derived as follows:

Additional payment, per Government Audit, Your letter, May 7, 1964.....	$ 684.32
Royalty, Lot D-24, April 1964 Production....	2,973.95
Total....	$3,658.27

You will note certain discrepancies in the lot numbers shown in the detail attached. These discrepancies were caused by an error in shipping in that a car of zinc concentrate was shipped to El Paso (lead smelter) and then returned to Amarillo (zinc smelter). At the same time, a car of lead concentrate was shipped to Amarillo and partially dumped into the bins before the error became apparent. The remaining portion of the lead lot was then shipped on to El Paso.

I trust you will find this calculation to be in order.

Yours very truly,

Original signed by
J. F. FROST

J. F. FROST

JFF:bm
Encls.
cc: H.M.Connors (extra)
C.E.Nelson)
T.A.Snedden)
H.L.Goodenough) w/encls.
H.W.Grose)
L.K.Nicholson,Jr.)

Keystone Unit

American Smelting & Refining Company

Docket: D.M.E.A. 3866
Contract: No. Idm E 903

Calculation of Royalty

Lot No. D-24 April 1964
from
April 1964 Production

	%wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		3407	$	$	
Lead Concr	7.14	243.26	188.54	45864.24	
Zinc Concr	8.92	303.90	44.80	13614.72	
		Total		59478.96	$2973.95

Keystone Unit

Docket: DMEA. 3866
Contract: No. Idm E 903

Concentrate Liquidated During Month of April 1964

Lead Conct.

Lot No.	Tons	Net Smelter Value
B-59-16	69.5400	$12 457.99
B-59-16	correction	107.09
Smelter Lot 749	65.8470	11 897.33
B-62-19	64.5645	12 031.50
B-83-28*	38.7065	7341.31
B-63-(20)	54.2030	10 907.11
B-64-21	62.3340	12 061.67
B-65-22	63.0215	12 087.08
B-66-23	63.5510	11940.44
Total	481.7675	90 831.52
Avg./Ton		$188.54

Zinc Conct.

Lot No.	Tons	Net Smelter Value
B-82-26	58.4495	$2509.00
B-83-27	69.1300	2961.28
B-83-28*	29.5030	3125.75
B-84-29	62.8095	2761.32
~~B-85-30~~ [Smelter 90-8]	61.6080	1938.92
B-86-30	63.2435	2686.91
B-87-31	61.7850	2620.35
B-88-32	65.0430	2833.74
B-89-33	62.3890	2715.65
B-90-34	61.6130	2691.20
B-91-35	61.1020	2578.79
Total	656.7355	29422.91
Avg./Ton		$44.80

N.B.: $6.00/s.d.t. Truck Transportation allowance has NOT been deducted from Net Smelter Values shown above.

AMERICAN SMELTING AND REFINING COMPANY
WESTERN MINING DEPARTMENT
600 CRANDALL BUILDING
SALT LAKE CITY 1, UTAH

J. F. FROST
MANAGER

April 8, 1964

OME
DEPARTMENT OF THE INTERIOR
APR 9 1964
REGION III
DENVER, COLORADO

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 6654 in your favor in the amount of $2457.61 as royalty on Lot D-23 from March production of ore mined from ground under the DMEA contract.

My letter of December 23, 1963 to you explained the method we use for calculating these royalty payments. Details are attached.

Yours very truly,

Original signed by
J. F. FROST
J. F. FROST

JFF:bm
Encls.
cc: H.M.Connors (extra)
C.E.Nelson)
T.A.Snedden)
H.L.Goodenough) w/encls.
H.W.Grose)
L.K.Nicholson, Jr.)

KEYSTONE UNIT

AMERICAN SMELTING & REFINING CO.

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

Calculation of Royalty
Lot No. D-23 - March 1964
from
March 1964 Production

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		3221			
Lead Conct.	6.52	210.01	$186.52	$39,171.07	
Zinc Conct.	8.33	268.31	37.20	9,981.13	
Total				$49,152.20	$2,457.61

KEYSTONE UNIT

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

CONCENTRATE LIQUIDATED DURING MONTH
of
MARCH 1964

LEAD CONCT.			ZINC CONCT.		
Lot No.	Tons	Net Smelter Value	Lot No.	Tons	Net Smelter Value
B-53-10	64.0070	$11,705.07	B-72-16	72.3330	$ 2,702.07
B-54-11	64.9950	13,485.61	B-73-17	57.4590	2,117.60
B-55-12	69.1180	13,590.56	B-74-18	65.2050	2,375.18
B-56-13	65.0395	11,970.02	B-75-19	69.5950	2,609.70
B-57-14	73.3320	12,781.63	B-76-20	63.3945	2,535.08
B-58-15	67.5365	11,824.82	B-77-21	61.1540	2,232.73
			B-78-22	64.2430	2,365.64
			B-79-23	63.4210	2,328.29
			B-80-24	69.0525	2,524.19
			B-81-25	65.7405	2,449.26
Total	404.0280	$75,357.71	Total	651.5975	$24,239.74
Avg./Ton		$186.52	Avg./Ton		$37.20

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 13 1964

DATE	INITIALS	CC

March 16, 1964

OME
DEPARTMENT OF THE INTERIOR
MAR 17 1964
REGION III
DENVER, COLORADO

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm, E903

Dear Mr. Connors:

Herewith is our check No. 6506 in your favor in the amount of $1422.90 as royalty on Lot D-22 from February production of ore mined from ground by the DMEA contract.

My letter of December 23, 1964 to you explained the method we use for calculating these royalty payments. Details are attached.

Yours very truly,

Original signed by
J. F. FROST
J. F. FROST

JFF:bm
Encls.
cc: H.M.Connors (extra)
C.E.Nelson)
T.A.Snedden) w/encls.
H.L.Goodenough)
H.W.Grose)
L.K.Nicholson, Jr.)

KEYSTONE UNIT

AMERICAN SMELTING & REFINING CO.

OME
DEPARTMENT OF THE INTERIOR
MAR 17 1964
REGION III
DENVER, COLORADO

DOCKET: DMEA 3866
CONTRACT: Idm E903

Calculation of Royalty
Lot No. D-22 - Feb. 1964
from
February 1964 Production

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		2204			
Lead Conct.	5.96	131.36	$157.92	$20,744.37	
Zinc Conct.	10.37	228.55	33.75	7,713.56	
Total				$28,457.93	$1,422.90

KEYSTONE UNIT

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

CONCENTRATE LIQUIDATED DURING MONTH
of
FEBRUARY 1964

OME
DEPARTMENT OF THE INTERIOR
MAR 17 1964
REGION III
DENVER, COLORADO

LEAD CONCT.			ZINC CONCT.		
Lot No.	Tons	Net Smelter Value	Lot No.	Tons	Net Smelter Value
B-48-5	69.1405	$ 10,020.46	B-60-4	59.3850	$ 1,886.58
B-49-6	73.8650	11,493.89	B-61-5	63.5525	1,884.21
B-50-7	71.4315	10,095.68	B-62-6	61.1400	1,973.24
B-51-8	72.3700	11,950.48	B-63-7	66.4920	2,194.46
B-52-9	70.0010	12,785.61	B-64-8	61.7045	1,990.13
			B-65-9	63.9020	2,173.18
			B-66-10	66.6775	2,304.98
			B-67-11	71.0880	2,427.32
			B-68-12	69.0065	2,244.45
			B-69-13	68.0825	2,408.25
			B-70-14	65.4730	2,520.48
			B-71-15	67.8355	2,463.23
Total	356.8080	$ 56,346.12	Total	784.3390	$26,470.51
Avg./Ton		$157.92	Avg./Ton		$33.75

OMC
MAR 1 1991
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O. H. E.
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DATE
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DATE

February 20, 1964

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DATE
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1964
OFFICE

OME
DEPARTMENT OF THE INTERIOR
FEB 24 1964
REGION III
DENVER, COLORADO

Mr. Hugh M. Connors
Acting Field Office
Office Mineral Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 6326 in your favor in the amount of $1966.49 as royalty payment on Lot D-21 from January 1964 production of ore mined from ground covered by the DMEA contract.

My letter of December 23, 1963 to you explained the method we use for calculating these royalty payments. Details are attached.

Yours very truly,

Original signed by
J. F. FROST
J. F. FROST

JFF:bm
Encls.
cc: H.M.Connors (extra)
C.E.Nelson)
H.L.Goodenough) w/encls.
H.W.Grose)
L.K.Nicholson,Jr.)

KEYSTONE UNIT

AMERICAN SMELTING & REFINING CO.

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

Calculation of Royalty
Lot No. D-21 - Jan. 1964
from
January 1964 Production

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		2671			
Lead Conct.	7.43	198.46	$151.01	$29,969.44	
Zinc Conct.	9.57	255.61	36.62	9,360.44	
Total				$39,329.88	$1,966.49

KEYSTONE UNIT

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

CONCENTRATE LIQUIDATED DURING MONTH
of
JANUARY 1964

LEAD CONCT.

Lot No.	Tons	Net Smelter Value
A-39	63.6340	$ 9,103.25
A-40	63.0635	10,035.90
A-41	61.0205	9,723.28
A-42	67.5605	9,658.96
A-43	67.7505	10,423.51
B-44-1	60.8010	10,381.63
B-45-2	64.9320	10,111.33
B-46-3	68.9215	9,939.80
B-47-4	61.7235	8,120.67
Total	579.4070	$87,498.33
Avg./Ton	$151.01	

ZINC CONCT.

Lot No.	Tons	Net Smelter Value
A-49	65.8565	$ 2,445.67
A-50	66.4365	2,432.37
A-51	67.4585	2,489.57
A-52	67.3950	2,575.28
A-53	68.3215	2,314.73
A-54	63.5760	2,407.75
A-55	62.8095	2,266.31
A-56	60.2700	2,076.50
B-57-1	66.1280	2,486.79
B-58-2	64.3840	2,363.37
B-59-3	64.7400	2,412.99
Total	717.3755	$26,271.33
Avg./Ton	$36.62	

January 22, 1964

OME
DEPARTMENT OF THE INTERIOR
JAN 24 1964
REGION III
DENVER, COLORADO

Mr. Hugh M. Connors
Acting Field Office
Office Mineral Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Herewith is our check No. 6125 in your favor in the amount of $2612.94 as royalty payments on the following lots of ore mined from ground covered by the DMEA contract.

November 1963, Lot No. D-19.....	$1180.17
December 1963, Lot No. D-20.....	1470.08
	$2650.25
Less previous overpayment per my letter to you 12-30-63.....	37.31
Total.....	$2612.94

My letter of December 23, 1963 to you explained the method that we use for calculating these royalty payments.

Yours very truly,

Original signed by
J. F. FROST

J. F. FROST

JFF:bm
Encl.
cc: H.M.Connors (extra)
C.E.Nelson
H.L.Goodenough
H.W.Grose
L.K.Nicholson,Jr.

OME
DEPARTMENT OF THE INTERIOR
REGION III

KEYSTONE UNIT

AMERICAN SMELTING & REFINING CO.

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

Calculation of Royalty
Lot No. D-19 - Nov. 1963
from
Nov. 1963 production

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		1730			
Lead Conct.	8.13	140.65	$130.32	$18,329.51	
Zinc Conct.	8.77	151.72	34.76	5,273.79	
Total				$23,603.30	$1,180.17

OME
DEPARTMENT OF THE INTERIOR
JAN 3
REGION III
DENVER, COLORADO

KEYSTONE UNIT

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

CONCENTRATE LIQUIDATED DURING MONTH
of
NOVEMBER 1963

LEAD CONCT.

Lot No.	Tons	Net Smelter Value
A-24	72.4440	$10,437.84
A-25	73.5045	10,035.04
A-26	69.8510	8,805.21
A-27	70.5215	7,491.29
A-28	74.2425	8,972.84
A-29	65.0060	9,105.62
A-30	60.8205	8,540.84
Total	486.3900	$63,388.68
Avg./Ton		$130.32

ZINC CONCT.

Lot No.	Tons	Net Smelter Value
A-33	66.4715	$2,357.50
A-34	67.6375	2,464.04
A-35	71.0235	2,394.02
A-36	68.6700	2,335.60
A-37	64.9845	2,175.77
A-38	68.3770	2,456.96
A-39	59.6300	2,040.89
	466.7940	$16,224.78
Avg./Ton		$34.76

3

OME
DEPARTMENT OF THE INTERIOR
REGION III

KEYSTONE UNIT

AMERICAN SMELTING & REFINING CO.

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

Calculation of Royalty
Lot No. D-20 - Dec. 1963
from
December 1963 Production

	%Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		1734			
Lead Conct.	8.99	155.89	$151.90	$23,679.69	
Zinc Conct.	9.29	161.09	35.52	5,721.92	
Total				$29,401.61	$1,470.08

3
E903
American Smelting & Refining Co
$1470

OME
DEPARTMENT OF THE INTERIOR
JAN 18
REGION II
MINERALS OPERATIONS

KEYSTONE UNIT

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

CONCENTRATE LIQUIDATED DURING MONTH
of
DECEMBER 1963

LEAD CONCT.

Lot No.	Tons	Net Smelter Value
A-31	67.4680	$10,234.97
A-32	66.1665	9,967.62
A-33	68.1585	11,077.37
A-34	65.7825	10,448.16
A-35	63.1345	9,995.42
A-36	64.8090	9,714.50
A-37	70.3665	10,222.41
A-38	58.9820	8,064.67
Total	524.8675	$79,725.12
Avg./Ton		$151.90

ZINC CONCT.

Lot No.	Tons	Net Smelter Value
A-40	65.9860	$2,335.56
A-41	64.3235	2,356.49
A-42	63.3845	2,173.77
A-43	64.1805	2,132.41
A-44	66.9725	2,269.57
A-45	62.5100	2,267.22
A-46	59.9425	2,137.83
A-47	62.8670	2,234.03
A-48	68.8650	2,630.99
	579.0315	$20,567.87
Avg./Ton		$35.52

3

[illegible] Refining

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December 30, 1963

DATE		CODE
1/6	WG	800
~~1/2~~	~~Murphy~~	~~300~~
		220

Mr. Hugh M. Connors
Acting Field Office
Office Mineral Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT - ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm. E903

Dear Mr. Connors:

Attention has been called to an error of transposition on Royalty Calculation Lot D-17 for September 1963. Attached hereto is a corrected copy of Royalty Calculation. Would you please substitute this corrected copy for the original?

The royalty payments made on December 23 should be corrected as follows:

Payment Lot D-17 (in error)	$483.89
Corrected	446.58
Overpayment to be credited next settlement	$ 37.31

I trust that with this correction you will now find the royalty settlement in order and correction as noted above will be taken up in our next royalty settlement.

Yours very truly,

J. F. FROST

JFF:mm
cc: H.M.Connors (extra)
C.E.Nelson
H.L.Goodenough
H.W.Grose
L.K.Nicholson,Jr.

KEYSTONE UNIT

AMERICAN SMELTING AND REFINING COMPANY

DOCKET: D.R.E.A. 3366
CONTRACT: No. Idm 8903

Calculation of Royalty - Corrected 12-30-63
Lot No. D-17 - September 1963
from
September 1963 Production

	% Wt.	Tons	Value/Ton	Total Value	Royalty 6.5%
Crude Ore		663.			
Lead Concr.	7.83	52.30	$133.88	$ 7001.92	
Zinc Concr.	8.93	59.65	32.35	1929.68	
Total				$ 8931.60	$ 446.58

Original payment December 23, 1963 (in error)	$483.89
Corrected as above	446.58
Overpayment to be credited next settlement	$ 37.31

December 23, 1963

Mr. Hugh M. Connors
Acting Field Office
Office Minerals Exploration
Building 20
Denver Federal Center
Denver, Colorado

KEYSTONE UNIT
ROYALTY PAYMENT
DOCKET: DMEA 3866
CONTRACT: No. Idm E903

Dear Sir:

Enclosed please find our check No. 5851 in your favor in the amount of $1660.50 as royalty payments on the following lots of ore mined from ground covered by captioned DMEA contract:

Aug. 1963	- Lot No. D-16	$ 309.83
Sept. 1963	- Lot No. D-17	483.89
Oct. 1963	- Lot No. D-18	866.78
	Total	$1660.50

Under date of June 17, 1963 we sent you a copy of the lease under which the Keystone property is being operated for us. Tonnages used herein are the figures supplied by the lessee as required by the terms of the lease.

When we operated the Keystone mine, we spent a large sum of money for exact determination of tonnage and grade obtained from each working place. Such determinations were used in the calculation of royalties, which calculations were supplied to you for each settlement through lot No. D-15. Now, under a lease arrangement, it is not financially feasible to go to such refinements. There will have to be some "give and take" in such figures if the lessee operation is not to be burdened with excessive requirements. As you no doubt are well aware, the DMEA contract covers only a small portion of the operating area of the Keystone mine. We have just received the lessee's figures on all DMEA ore mined by the lessee through October 1963. The DMEA ore is mixed with other ore before milling, so required assumption No. 1 is that DMEA ore is the average assay and will give average metallurgical results for the month. Assumption No. 2 is that average Net Smelter Value of lead concentrate and of zinc concentrate liquidated during any month is the value of each concentrate produced from DMEA ore during that month. Smelter settlements have been calculated to deduct transportation charges (actual plus contractual), as well

Mr. Hugh M. Connors Dec. 23, 1963

as umpire charges and representation charge. The royalty payable to Asarco is not deducted in obtaining this "Net Smelter Value" used herein. DMEA royalty is calculated using the maximum royalty rate provided by the DMEA contract. I trust this method will receive the approval of all concerned.

Yours truly,

Original signed by
J. F. FROST
J. F. FROST

JFF:bm
Encl.

cc: H.M.Connors (Extra), w/encl.
C.E.Nelson, " "
H.L.Goodenough, " "
H.W.Grose, " "

KEYSTONE UNIT

AMERICAN SMELTING & REFINING CO.

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

Calculation of Royalty
Lot No. D-16 - Aug. 1963
from
Aug. 1963 production.

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		429.			
Lead Conct.	7.95	34.11	$147.63	$5035.66	
Zinc Conct.	8.20	35.18	33.00	1160.94	
Total				$6196.60	$309.83

KEYSTONE UNIT

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

CONCENTRATE LIQUIDATED DURING MONTH
of
AUGUST 1963

LEAD CONCT.

Lot No.	Tons	Net Smelter Value	Per ton
A-5	67.3770	$11,314.69	167.93
A-6	71.6850	11,175.52	155.90
A-7	72.7010	11,558.78	158.99
A-8	69.1870	8,593.29	124.20
A-9	65.3680	8,484.14	129.79
Total	346.3180	$51,126.42	
Avg./Ton		$147.63	

ZINC CONCT.

Lot No.	Tons	Net Smelter Value	Per ton
A-6	51.6065	$ 1,768.80	34.27
A-7	63.5075	2,299.52	36.21
A-8	58.3080	1,825.48	31.31
A-9	55.2920	1,825.17	33.01
A-10	64.0920	1,965.53	30.67
A-11	54.5695	1,611.81	29.54
A-12	68.7165	2,279.63	33.17
A-13	60.5570	2,111.95	34.87
A-14	54.6615	1,820.89	33.31
A-15	61.8535	2,065.53	33.39
Total	593.1640	$19,574.31	
Avg./Ton		$33.00	

KEYSTONE UNIT

AMERICAN SMELTING & REFINING CO.

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

Calculation of Royalty
Lot No. D-17 - Sept. 1963
from
Sept. 1963 Production

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		668.			
Lead Conct.	7.83	52.30	$32.35	$1,691.91	
Zinc Conct.	8.93	59.65	133.88	7,985.94	
Total				$9,677.85	$483.89

Recomputed
See letter 12/30/63

7,051.92
1,939.02

KEYSTONE UNIT

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

CONCENTRATE LIQUIDATED DURING MONTH
of
SEPTEMBER 1963

LEAD CONCT.			ZINC CONCT.		
Lot No.	Tons	Net Smelter Value	Lot No.	Tons	Net Smelter Value
A-10	71.8200	$ 8,141.36	A-16	60.6805	$ 1,926.39
A-11	70.9955	7,981.98	A-17	61.6735	1,910.59
A-12	59.3220	7,982.86	A-18	62.5605	2,012.84
A-13	65.7105	10,054.72	A-19	62.5545	2,229.43
A-14	60.5705	9,807.36	A-20	60.1465	2,028.81
			A-21	57.8865	1,722.04
			A-22	60.6575	1,957.27
Total	328.4185	$43,968.28	Total	426.1595	$13,787.37
Avg/Ton		$133.88	Avg./Ton		$32.35

KEYSTONE UNIT

AMERICAN SMELTING & REFINING CO.

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

Calculation of Royalty
Lot No. D-18 - Oct. 1963
from
October 1963 Production

	% Wt.	Tons	Value/ton	Total Value	Royalty @ 5%
Crude Ore		1161.			
Lead Conct.	9.23	107.16	$132.69	$14,219.06	
Zinc Conct.	7.84	91.02	34.24	3,116.52	
Total				$17,335.58	$866.78

KEYSTONE UNIT

DOCKET: DMEA 3866
CONTRACT: No. Idm E903

CONCENTRATE LIQUIDATED DURING MONTH
of
OCTOBER 1963

LEAD CONCT.

Lot No.	Tons	Net Smelter Value
A-15	57.7100	$ 8,302.42
A-16	63.7320	8,535.16
A-17	67.8460	8,217.34
A-18	60.6210	8,103.97
A-19	63.9685	7,936.02
A-20	68.1605	8,547.66
A-21	67.0965	8,939.90
A-22	69.0840	9,838.37
A-23	61.9975	8,566.75
Total	580.2160	$76,987.59
Avg./Ton		$132.69

ZINC CONCT.

Lot No.	Tons	Net Smelter Value
A-23	61.6305	$ 1,854.62
A-24	63.1030	1,988.55
A-25	59.3405	1,979.85
A-26	62.4575	2,016.55
A-27	64.2790	2,120.56
A-28	61.1845	1,924.64
A-29	60.6895	2,129.64
A-30	67.6190	2,668.00
A-31	57.6450	2,197.61
A-32	66.4895	2,502.42
Total	624.4380	$21,382.44
Avg./Ton		$34.24

OME, REGION III

Interim

Statement in Lieu of ~~Semi-annual~~ Report

on Certified Project

Reporting Period **January 1, 1959 to February 3, 1960**

Docket and Contract Number **DMEA 3866, Idm-E903 (Lead-zinc-copper)**

Operator **American Smelt. & Ref. Co. (Keystone mine)**
Gunnison County, Colorado

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [X]

Remarks:

The Operator reported that there was no production from the subordinated land during the reporting period.

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 7 1960

DATE		
3-7	qad	110
3/8	EEF	800
		500

Signed T. M. Romslo
T. M. Romslo

Date **February 17, 1960**

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

September 6, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty Payments, Docket DMEA-3866 (Lead-Zinc-Copper) Contract Idm-E903, American Smelting and Refining Company (Keystone Mine) Gunnison County, Colorado
Period: August, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
June 1957	D-14	189.800	$737.94	$737.94		
July 1957	D-15	95.800	285.24	285.24		
Totals:		285.600	$1,023.18	$1,023.18		

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9/16 | [illegible] | 500

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 1,600.717

E. M. Hawkins
Acting Executive Officer

Chron
cc: Royalty File E 903 w/settlement sheets
Monthly Royalty Payment File
hmh

KEYSTONE UNIT

Docket: DMEA 3866

Contract: No. Idm E 903

Calculation of Royalty

Lot D-14 June 1957

from

June 1957 Production (DMEA)

Tons	Assay			
	Ag oz.	Pb %	Cu %	Zn %
1139	3.15	3.79	0.61	5.65

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Lead Conct.	77.7	$ 141.47	$10,992.22	$ 549.61
Zinc Conct.	112.1	33.60	3,766.56	188.33
Total			$14,758.78	$ 737.94

DMEA
PARTMENT OF THE INTERIOR
AUG 6 - 1957
REGION III
DENVER, COLORADO

E903

Docket: DMEA 3866 Contract No IdmE 903 DATE: 7/25/57

REF.:

SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit, June 1957 Production (DMEA)

~~PRODUCTS~~ for sources, see attached list

METALLURGICAL RESULTS – BASED ON Lot D-14 TONS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS Au	ASSAYS Ag	ASSAYS PER CENT Pb	ASSAYS PER CENT Cu	ASSAYS PER CENT Zn	ASSAYS PER CENT	ASSAYS PER CENT Fe+Mn	RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	RECOVERIES Pb	RECOVERIES Cu	RECOVERIES Zn	RATIO OF CONCENTRATION
Heads	1137			3.15	3.79	0.61	5.65							
Pb Conct.	77.7	6.82		35.18	48.53	6.25	5.53			76.2	87.3	69.9	6.7	14.66:1
Zn Conct.	112.1	9.84		3.74	0.29	1.03	50.71		11.43	11.7	0.8	16.6	88.3	10.16:1
Tailing	949.2	83.34		0.46	0.54	0.10	0.34			12.2	11.9	13.7	5.0	
										100.1	100.0	100.2	100.0	

FINANCIAL STATEMENT U. S. CY.

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	90.456 ¢		
LEAD - PER LB.	14.350 ¢		
COPPER - PER LB. dom ref.	30.334 ¢		
ZINC - PER LB.	11.360 ¢		
NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE
BASIS "A"	$	$
Pb Conct.	141.47	9.65
Zn Conct.	33.60	3.31
Total		12.96
BASIS "B"		
BASIS "C"		

FORM S. L. 1M 12-23-47

RCT
J.F.F. } 7/25/57

Docket: DMEA [redacted]866 Contract No. I[redacted]E 903

ORE AND CONCENTRATE LIQUIDATION SHEET

Mill Lot No.
Mine Lot No. D-14
Class
Date July 25, 1957

Mine Keystone Unit June 1957 DMEA Production

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	90.456	–	90.456	90.456	–	90.456
Lead	Cents/lb.	14.320	2.277	12.043	–	–	
Copper	Cents/lb.	30.334	6.902	23.432	30.334	6.125	24.209
Zinc	Cents/lb.				11.360	0.5974	10.7626

WEIGHTS CRUDE ORE

Wet Weight		lbs.
Moist. %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$		$
Silver	35.18	Oz.	–	35.18	35.18	95	33.42	Oz	0.90456	30.23		
Lead	48.53	%	1.0	47.53	950.60	90	855.54	lbs.	0.12043	103.03		
Copper	6.25	%	0.75	5.50	110.00	100	110.00	lbs.	0.23432	25.78		
TOTAL PAYMENTS FOR METALS										159.04		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 8.00	$	
Lead Assay Adjustment (50.00 - 48.53) $0.10	0.15		
Zinc Penalty 5.53 - 12	–		
~~Bismuth Penalty~~ Lead (2.303 - 1.948) 6	2.13		
Spl. Pb Pay. (14.32 - 10.00) x $0.015 x 48.53		3.14	
Bullion Tax included in R&D.			
Freight: [(8.94 + 3%) ÷ 0.90] + switch $0.20	10.43		
TOTAL TO DEDUCT	20.71	3.14	17.57
NET RETURN PER TON OF CONCENTRATE			$ 141.47
NET RETURN PER TON OF CRUDE ORE @ 6.52%			$ 9.65
TOTAL NET RETURN 77.7 tons.			$ 1097.22

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$		$
Silver	3.74	Oz.	–	3.74	3.74	80	2.99	Oz.	0.90456	2.70		
Lead	0.29	%	1.5	–	–	–	–	lbs.	–	–		
Copper	1.03	%	–	1.03	20.60	65	13.39	lbs	0.24209	3.24		
Zinc	50.71	%	–	50.71	1014.20	83.355	845.39	lbs.	0.10762	90.99		
TOTAL PAYMENTS FOR METALS										96.93		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 37.50	$	
Labor Adjustment (82,327 - 2,000) 15	4.91		
Spelter Price Adjustment (11.36 - 8.00) $1.25	4.20		
TOTAL BASE CHARGE			
Spelter Tax Included in R&D.			
Fe + Mn (11.43 - 7.50) $0.50	1.97		
Freight ($6.30 + 3%) ÷ 0.90 Truck to Salida	7.21		
($5.15 + 15% + 6% + 5% + 3%) ÷ 0.90 Rail to Bonita	7.54		
TOTAL TO DEDUCT	63.33		63.33
NET RETURN PER TON OF CONCENTRATE			33.60
NET RETURN PER TON OF CRUDE ORE @ 9.84%			3.31
TOTAL NET RETURN 112.1 tons.			3766.56
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT			12.96 $ 14758.78

Orig cc Correct [illegible] Approved [illegible]

No. 5004
CODE 45-504

7/25/57

Keystone Unit
June 1957 DMEA Production
DMEA-3866 Contract Idn E 903

Lot D-14	Tons	Ag	Pb	Cu	Zn
Assay		oz	%	%	%
2000 Union N. Dr.	20	0.30	0.40	0.05	0.10
20-55-1 Stope	307	4.30	5.20	1.00	9.80
20-56-1 ✓	191	5.10	10.00	0.80	6.70
20-56-1 Raise	94	2.60	2.10	0.50	6.70
20-57-1 Stope	271	1.40	1.20	0.20	2.20
21-57 - ✓	256	2.60	1.10	0.50	3.60
Content {oz / Tons					
2000 Union N. Dr	20	6.	0.080	0.010	0.020
20-55-1 Stope	307	1320	15.964	3.070	30.086
20-56-1 ✓	191	974	19.100	1.528	12.797
20-56-1 Raise	94	244	1.974	.470	6.298
20-57-1 Stope	271	379	3.252	0.542	5.962
21-57 - ✓	256	666	2.816	1.280	9.216
Total	1139	3589	43.186	6.900	64.379
Average Assay		3.15	3.79	0.61	5.65

DMEA
PARTMENT OF THE INTERIOR
AUG 6 - 1957
REGION III
DENVER, COLORADO

KEYSTONE UNIT

Docket: DMEA 3866
Contract: No. Idm E 903

Calculation of Royalty
Lot D-15 July 1957

from

July 1957 Production (DMEA)

Tons	Assay			
	Ag Oz.	Pb %	Cu %	Zn %
512	3.10	2.88	0.56	7.33

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Lead Conct.	29.3	$141.73	$4,152.69	$207.63
Zinc Conct.	66.5	23.34	1,552.11	77.61
Total			$5,704.80	$285.24

Docket: DOTEA 3866 Contract No. Idm E 903 DATE: 7/29/57

AMERICAN SMELTING AND REFINING COMPANY

REF.

SUPPORTING DATA: Production was suspended July 15th, hence metal prices used herein are avg. of first two weeks of E&C.J. for July 1957.

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit, July 1957 Production (DOTEA). ~~Process~~ for sources, see attached list

METALLURGICAL RESULTS – BASED ON Lot D-15 TONS

PRODUCTS	DRY WEIGHTS Tons.	% TOTAL	ASSAYS Au	Ag	PER CENT Pb	Cu	Zn	Fe	Fe+Cu	RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Hg	Pb	Cu	Zn	RATIO OF CONCENTRATION
Heads	512			3.10	2.89	0.56	7.33							
Pb Conct	29.3	5.72		44.78	46.33	6.61	5.82			93.0	92.0	67.5	4.5	17.48:1
Zn Conct	66.5	13.93		3.37	0.33	0.84	51.39		11.68	7.5	1.5	19.5	91.0	7.70:1
Tailing	416.2	81.30		0.89	0.33	0.09	0.41			7.6	6.5	13.1	4.5	
	512.	100.00								100.1	100.0	100.1	100.0	

FINANCIAL STATEMENT

U. S. CY.

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	90.250 ¢		
LEAD - PER LB.	14.000 ¢		
COPPER - PER LB. dom. ref.	28.807 ¢		
ZINC - PER LB.	10.013 ¢		

NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE
BASIS "A"	$	$
Pb Conct	141.73	8.11
Zn Conct	23.34	3.03
Total		11.14
BASIS "B"		
BASIS "C"		

FORM S. L. 1M 12-23-47

RCT
JFF } 7/29/57

FORM H-22 DMEA 3866 Contract No. Idm 6903

ORE AND CONCENTRATE LIQUIDATION SHEET

Mill Lot No.
Mine Lot No. D-15
Class
Date July 29, 1957

Mine Keystone ~~Unit~~ July 1956 DMEA Production

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	90.250	-	90.250	90.250	-	90.250
Lead	Cents/lb.	14.000	2.277	11.723	-	-	-
Copper dom.	Cents/lb.	28.807	6.902	21.905	28.807	6.125	22.682
Zinc	Cents/lb.	-	-	-	10.013	0.5974	9.4156

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	44.98	Oz.	-	44.98	44.98	95	42.73	Oz.	0.90250	38.56		
Lead	46.33	%	1.00	45.33	906.60	90	815.94	lbs.	0.11723	95.65		
Copper	6.61	%	0.75	5.86	117.20	100	117.20	lbs.	0.21905	25.67		
TOTAL PAYMENTS FOR METALS										159.88		

DEDUCTIONS	DR.	CR.			
Base Treatment Charge	$ 8.00	$			
Lead Assay Adjustment (50.00 - 46.33) $0.10	0.37				
Zinc Penalty 5.82 - 12.00	-				
~~Discount Penalty~~ Labor ($ 2.303 - 1.948)6	2.13				
Spl. Pb Pay (14-10) $0.015 x 46.33		2.78			
Bullion Tax Included in R.&D.					
Freight: [($8.94+3%) ÷ 0.90] + Switch $0.20	10.43				
TOTAL TO DEDUCT	20.93	2.78	18.15		
NET RETURN PER TON OF CONCENTRATE			141.73		
NET RETURN PER TON OF CRUDE ORE @ 5.72%				8.11	
TOTAL NET RETURN 29.3 tons					4153.69

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	2.27	Oz.	-	2.27	2.27	80	1.82	Oz.	0.90250	1.64		
Lead	0.33	%	1.5	-	-	-	-	lbs.	-	-		
Copper	0.84	%	-	0.84	16.50	65	10.92	lbs.	0.22682	2.48		
Zinc	51.39	%	-	51.39	1027.80	83.695	860.22	lbs.	0.094156	80.99		
TOTAL PAYMENTS FOR METALS										85.11		

DEDUCTIONS	DR.	CR.			
Base Treatment Charge	$ 37.50	$			
Labor Adjustment ($2.327 - 2.000)15	4.91				
Spelter Price Adjustment (10.013 - 8.000) $1.25	2.52				
TOTAL BASE CHARGE					
Spelter Tax Included in R&D.	-				
Fe + Mn (11.68 - 7.50) $0.50	2.09				
Freight ($6.30 + 3%) ÷ 0.90 Truck to Salida	7.21				
($5.15 + 15% + 6% + 5% + 3%) ÷ 0.90 Rail to Minerville	7.54				
TOTAL TO DEDUCT	61.77		61.77		
NET RETURN PER TON OF CONCENTRATE			23.34		
NET RETURN PER TON OF CRUDE ORE 12.98%				3.03	
TOTAL NET RETURN 66.5 tons					1552.11
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT				11.14	5704.80

Orig cc Correct RST Approved J.F.F.

No. 3004 CODE 45-504

7/29/57

Keystone Unit
July 1957 DCMEA Production
DCMEA-3866 Contract Idm E 903

Lot D-15

Assay	Tons	Ag oz	Pb %	Cu %	Zn %
20-55-1 Stope	206	2.80	2.40	0.50	3.20
20-56-1 Raise	306	3.30	3.20	0.60	9.70

Content {oz. / Tons.					
20-55-1 Stope	206	577	4.944	1.030	7.828
20-56-1 Raise	306	1.010	9.792	1.836	29.682
Total	512	1.587	14.736	2.866	37.510
Average Assay		3.10	2.88	0.56	7.33

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

July 9, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty Payments, Docket DMEA 3866 (Lead-Zinc-Copper) Contract Idm-E903, American Smelting and Refining Co. (Keystone Mine) Gunnison County, Colorado
Period: June, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
May 1957	D-13	292.100	$1402.29	$1402.29		
Totals:		292.100	$1402.29	$1402.29		

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 1315.117

U. S. BUREAU OF MINES
SOUTHWEST EXPERIMENT STATION
JUL 15 1957
TUCSON, ARIZONA

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DMEA
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DATE	INITIALS	CODE
8/8	P.K.	220
8/8	WRY	500

W S Kinney
Executive Officer

Chron.
cc: Royalty File E 903 w/settlement sheets
Monthly Royalty Payment File
hmh

KEYSTONE UNIT

Docket: DMEA 3866
Contract No. Idm E903

Calculation of Royalty

Lot D-13 May 1957

from

May 1957 Production (DMEA)

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DATE	INITIALS	CODE

Tons	Assay			
	Ag	Pb	Cu	Zn
1078	7.38	5.59	1.05	9.61

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Lead Conct.	115.6	$183.92	$21,261.15	$1,063.06
Zinc Conct.	176.5	38.44	6,784.66	339.23
Total			$28,045.81	$1,402.29

DMEA
DEPARTMENT OF THE INTERIOR
JUN 27 1957
REGION III
DENVER, COLORADO

E 903

Docket: DMEA 3866 Contract No Idm E 903 DATE: June 19, 1957

REF.:

SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit, May 1957 Production (DMEA).

[redacted] for sources, see attached list.

METALLURGICAL RESULTS – BASED ON Lot D-13 TONS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS AU	ASSAYS Ag	ASSAYS PER CENT Pb	ASSAYS PER CENT Cu	ASSAYS PER CENT Zn	ASSAYS PER CENT	ASSAYS PER CENT Fe + Cln.	ASSAYS PER CENT	RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	RECOVERIES Pb	RECOVERIES Cu	RECOVERIES Zn.	RECOVERIES	RATIO OF CONCENTRATION
Heads	1078			7.38	5.59	1.05	9.61									
Pb Concr.	115.6	10.72		59.47	49.75	7.64	8.03				86.4	95.8	78.0	9.0		9.33:1
Zn Concr.	176.5	16.37		3.96	0.33	0.92	51.08		11.68		8.8	1.0	14.2	87.0		6.11:1
Tailing	785.9	72.91		0.49	0.25	0.11	0.53				4.8	3.3	7.6	4.0		
		100.00									100.0	100.1	99.9	100.0		

FINANCIAL STATEMENT U. S. CY.

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	91.307 ¢		
LEAD - PER LB.	15.385 ¢		
COPPER - PER LB. dom. ref.	31.288 ¢		
ZINC - PER LB.	11.923 ¢		

NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE	
BASIS "A"	$	$	
Pb Concr.	183.92	19.72	
Zn Concr.	38.44	6.29	
Total		26.01	
BASIS "B"			
BASIS "C"			

FORM S. L. 1M 12-23-47

RCT J.F.F. } 6/19/57

No. 5004 CODE 904

6/17/57

Keystone Unit

Class 1957 DMEA Production

DMEA-3866 Contract Idm-E 903

LOT D-13

Assay.	Tons	Hg oz	Pb %	Cu %	Zn. %
1850 Union Dr. N.	42	7.15	10.49	1.05	4.29
2000 Union Dr. N.	232	8.72	2.32	0.68	11.14
20-55-1 Stope.	570	7.47	5.98	1.25	9.93
20-56-1 Stope	234	5.87	7.01	0.91	8.27

Content {oz / tons.					
1850 Union Dr. N.	42	300.	4.406	0.441	1.802
2000 Union Dr. N.	232	2023.	5.382	1.578	25.845
20-55-1 Stope	570	4258.	34.086	7.125	56.601
20-56-1 Stope	234	1374	16.403	2.139	19.352
Total	1078	7955	60.277	11.273	103.600

Average Assay.		7.38	5.59	1.05	9.61

FORM H-22

Docket: DMER 3866 Contract No. Tbr E903 Mill Lot No.

ORE AND CONCENTRATE LIQUIDATION SHEET

Mine Lot No. D-13

Class

Mine Keystone Unit May 1957 DMER Production Date June 19, 1957

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	91.307	–	91.307	91.307	–	91.307
Lead	Cents/lb.	15.385	2.277	13.108	–	–	
Copper	Cents/lb.	31.288	6.902	24.386	31.288	6.125	25.163
Zinc	Cents/lb.	–	–	–	11.923	0.5974	11.3256

WEIGHTS CRUDE ORE

Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD ~~OR~~ COPPER CONCENTRATES ~~OR CRUDE~~

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	59.47	Oz.	–	59.47	59.47	95	56.50	Oz.	0.91307	51.59		
Lead	49.93	%	1.0	48.93	978.60	90	880.74	lbs.	0.13108	115.45		
Copper	7.64	%	0.75	6.89	137.80	100	137.80	lbs.	0.24386	33.60		
TOTAL PAYMENTS FOR METALS										200.64		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 8.00	$
Lead Assay Adjustment (50.00 – 49.93) $0.10	0.01	
Zinc Penalty 8.03 – 12.0	–	
~~Bismuth Penalty~~ Labor (#2.285 – 1.948) 6	2.02	
Spl. Pb. Pay. (15 – 10) $0.015 × 49.93		3.74
Bullion Tax included in R&D.		
Freight: [(8.94 + 3%) ÷ 0.90] plus switch $0.20	10.43	
TOTAL TO DEDUCT	20.46	3.74

TOTAL TO DEDUCT		16.72	
NET RETURN PER TON OF CONCENTRATE		$183.92	
NET RETURN PER TON OF CRUDE ORE @ 10.72%		$19.72	
TOTAL NET RETURN 115.6 tons			$2261.15

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	3.96	Oz.	–	3.96	3.96	80	3.17	Oz.	0.91307	2.89		
Lead	0.33	%	1.5	–	–	–	–	lbs.				
Copper	0.92	%	–	0.92	18.40	65	11.96	lbs.	0.25163	3.01		
Zinc	51.08	%	–	51.08	1021.60	83.54	853.44	lbs.	0.113256	96.66		
TOTAL PAYMENTS FOR METALS										102.56		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 37.50	$
Labor Adjustment (#2.325 – 2.000) 15	4.88	
Spelter Price Adjustment (11.923 – 8.0) #1.25	4.90	
TOTAL BASE CHARGE		
Spelter Tax included in R&D.		
Fe + Mn (11.68 – 7.50) $0.50	2.09	
Freight (#6.30 + 3%) ÷ 0.90 Truck to Salida	7.21	
(#5.15 + 15% + 6% + 5% + 3%) ÷ 0.90 Rail to Pueblo	7.54	
TOTAL TO DEDUCT	64.12	

TOTAL TO DEDUCT		64.12	
NET RETURN PER TON OF CONCENTRATE		$38.44	
NET RETURN PER TON OF CRUDE ORE @ 16.37%		$6.29	
TOTAL NET RETURN 176.5 tons			$6784.66
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT			$28045.81

Orig. cc Correct Approved J.F.S.

RECEIVED
AUG 8 1957
D.M.E.A.

KEYSTONE UNIT

Docket: DMEA 3866
Contract No. Idm E903

Calculation of Royalty

Lot D-13 May 1957

from

May 1957 Production (DMEA)

Tons	Assay			
	Ag	Pb	Cu	Zn
1078	7.38	5.59	1.05	9.61

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Lead Conct.	115.6	$183.92	$21,261.15	$1,063.06
Zinc Conct.	176.5	38.44	6,784.66	339.23
Total			$28,045.81	$1,402.29

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RECEIVED AUG 8 1957

DATE	INITIALS	CODE

E903

Docket: DMEA 3866 Contract No IdmE 903 DATE: June 19, 1957

REF.:

SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit, May 1957 Production (DMEA).

~~PROCESS~~ for sources, see attached list.

Lot D-13

METALLURGICAL RESULTS – BASED ON TONS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS PER CENT Au	Ag	Pb	Cu	Zn		Fe + Ins.		RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn		RATIO OF CONCENTRATION
Heads	1078			7.38	5.59	1.05	9.61									
Pb Concr.	115.6	10.72		59.47	47.93	7.64	6.03				86.4	95.8	78.0	9.0		9.33:1
Zn Concr.	176.5	16.37		3.96	0.33	0.92	51.08		11.68		8.8	1.0	14.2	87.0		6.11:1
Tailing	785.9	72.91		0.49	0.25	0.11	0.53				4.8	3.3	7.6	4.0		
		100.00									100.0	100.1	99.9	100.0		

FINANCIAL STATEMENT

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	91.307 ¢		
LEAD - PER LB.	15.385 ¢		
COPPER - PER LB. dom. ref.	31.288 ¢		
ZINC - PER LB.	11.923 ¢		

NET VALUE CRUDE ORE LESS COSTS

NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

U. S. CY.

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE
BASIS "A"	$	$
Pb Concr.	183.92	19.72
Zn Concr.	38.44	6.29
Total		26.01
BASIS "B"		
BASIS "C"		

FORM S. L. 1M 12-23-47

RCT / J.F.F. } 6/19/57

No. 5004
CODE 45504

6/17/57

Keystone Unit
Clay 1951 DOER Production
DOER-3866 Contract Idm-E 903

	Lot D-13				
	Tons	Hg oz	Pb %	Cu %	Zn %
Assay.					
1850 Union Dr. N.	42	7.15	10.49	1.05	4.29
2000 Union Dr. N.	232	8.72	2.32	0.68	11.14
20-55-1 Stope.	570	7.47	5.98	1.25	9.93
20-56-1 Stope	234	5.81	7.01	0.91	8.27
Content {oz / tons.					
1850 Union Dr. N.	42	300.	4406	0.441	1.802
2000 Union Dr. N.	232	2023.	5382	1.578	25.845
20-55-1 Stope	570	4258.	34086	7.125	56.601
20-56-1 Stope	234	1374	16403	2.129	19.352
Total	1078	7955	60277	11.273	103.600
Average Assay.		7.38	5.59	1.05	9.61

FORM H-22

Docket: DMER 3866 Contract No. T-DMER 903 Mill Lot No.

ORE AND CONCENTRATE LIQUIDATION SHEET

Mine Lot No. D-13

Class

Mine Keystone Unit May 1957 DMER Production Date June 19, 1957

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	91.307	—	91.307	91.307	—	91.307
Lead	Cents/lb.	15.385	2.277	13.108	—	—	—
Copper	Cents/lb.	31.288	6.902	24.386	31.288	6.125	25.163
Zinc	Cents/lb.	—	—	—	11.923	0.5974	11.3256

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD ~~OR~~ COPPER CONCENTRATES ~~OR CRUDE~~

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$		$
Silver	59.47	Oz.	—	59.47	59.47	95	56.50	Oz.	0.91307	51.59		
Lead	49.93	%	1.0	48.93	978.60	90	880.74	lbs.	0.13108	115.45		
Copper	7.64	%	0.75	6.89	137.80	100	137.80	lbs.	0.24386	33.60		
TOTAL PAYMENTS FOR METALS										200.64		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 8.00	$
Lead Assay Adjustment (50.00 - 49.93) $0.10	0.01	
Zinc Penalty 8.03 - 12.0	—	
~~Bismuth Penalty~~ Labor ($2.285 - 1.948) 6	2.02	
Spl. Pb. Pay. (15 - 10) $0.015 × 49.93		3.74
Bullion Tax included in R&D.		
Freight: [(8.94 + 3%) ÷ 0.90], plus switch $0.20	10.43	
TOTAL TO DEDUCT	20.46	3.74

TOTAL TO DEDUCT	16.72	
NET RETURN PER TON OF CONCENTRATE	$183.92	$19.72
NET RETURN PER TON OF CRUDE ORE @ 10.73%		
TOTAL NET RETURN 115.6 tons		$2261.15

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	3.96	Oz.	—	3.96	3.96	80	3.17	Oz.	0.91307	2.89		
Lead	0.33	%	1.5	—	—	—	—	lbs.				
Copper	0.92	%	—	0.92	18.40	65	11.96	lbs.	0.25163	3.01		
Zinc	51.08	%	—	51.08	1021.60	83.54	853.44	lbs.	0.113256	96.66		
TOTAL PAYMENTS FOR METALS										102.56		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 37.50	$
Labor Adjustment ($2.325 - 2.000) 15	4.88	
Spelter Price Adjustment (11.923 - 8.0) $1.25	4.90	
TOTAL BASE CHARGE		
Spelter Tax included in R&D.		
Fe + Mn (11.68 - 7.50) $0.50	2.09	
Freight ($6.30 + 3%) ÷ 0.90 Truck to Salida	7.21	
($5.15 + 15% + 6% + 5% + 3%) ÷ 0.90 Rail to Pueblo	7.54	
TOTAL TO DEDUCT	64.12	

TOTAL TO DEDUCT	64.12	
NET RETURN PER TON OF CONCENTRATE	$38.44	$6.29
NET RETURN PER TON OF CRUDE ORE @ 16.37%		
TOTAL NET RETURN 176.5 tons		$6784.66
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT		$28045.81

Orig cc Correct Approved J.F.F.

RECEIVED
AUG 8 1957
D.M.E.A.

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

June 7, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty Payments, Docket DMEA 3866 (Lead-Zinc-Copper) Contract Idm-E903, American Smelting & Refining Company (Keystone Mine) Gunnison County, Colorado
Period: May 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
Apr 1957	D-12	275.900	$1,449.16	$1,449.16		

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DMEA
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DATE	INITIALS	CODE
6/10	C	220
6/10	[illegible]	500

Totals:	275.900	$1,449.16	$1,449.16

Past Due Royalties Collected none

Total Dry Tons (Ore or Cons.) Shipped to Date 1023.017

E. M. Hasselman
Acting Executive Officer

A. S. Konselman w/settlement sheets
cc: Royalty File E 903 w/settlement sheets
Monthly Royalty Payment File
Hmh Chron.

DMEA
DEPARTMENT OF THE INTERIOR
MAY 27 1957
REGION III
DENVER, COLORADO

KEYSTONE UNIT

Docket: DMEA 3866
Contract No. Idm E903

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DMEA
RECEIVED JUN 10 1957

DATE	INITIALS	CODE

Calculation of Royalty

Lot D-12 April 1957

from

April 1957 Production (DMEA)

Tons	Assay			
	Ag	Pb	Cu	Zn
1125	8.64	4.06	0.99	9.16

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Lead Conct.	93.5	$213.67	$19,978.15	$ 998.91
Zinc Conct.	182.4	49.37	9,005.09	450.25
Total			$28,983.24	$1449.16

E 903

Docket: DMER 3866 Contract No. Idm E-903 DATE: May 21, 1957.

REF.:

SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit, April 1957 Production (DMER).

~~PROCESS~~ for sources see attached list.

METALLURGICAL RESULTS – BASED ON Lot D-12 TONS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS Au	ASSAYS Ag	ASSAYS PER CENT Pb	ASSAYS PER CENT Cu	ASSAYS PER CENT Zn	ASSAYS PER CENT	ASSAYS PER CENT Fe + Mn.	ASSAYS PER CENT	RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn	RATIO OF CONCENTRATION
Heads	1105			8.64	4.06	0.47	9.16								
Pb Conct.	93.5	8.31		92.02	46.00	8.89	7.10				88.5	94.2	74.6	6.4	12.03:1
Zn Conct	183.4	16.21		3.80	0.30	0.85	51.00		11.50		7.1	1.2	13.9	90.3	6.17:1
Tailing	849.1	75.48		0.50	0.25	0.15	0.40				4.4	4.6	11.4	3.3	
											100.0	100.0	99.9	100.0	

FINANCIAL STATEMENT

METAL PRICES	PRICE BASIS ~ Cents "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	91.375		
LEAD - PER LB.	16.		
COPPER - PER LB. dom. ref.	31.517		
ZINC - PER LB.	13.5		

NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

U. S. CY.

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE
BASIS "A"		
Pb Conct.	$213.67	$17.76
Zn Conct.	49.37	8.00
Total		25.76
BASIS "B"		
BASIS "C"		

FORM S. L. 1M 12-23-47

ABR
JRF 5/21/52

FORM H-22 Docket: DMER 38[redacted] Contract No. Id[redacted] Mill Lot No.

ORE AND CONCENTRATE LIQUIDATION SHEET

Mine Lot No. D-12

Class

Mine Keystone ~~Unit~~ April 1957 DMER Production Date May 21, 1957

METAL PRICES

METAL	UNIT	LEAD ~~OR~~ COPPER CONCTS. ~~OR CRUDE~~ Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	91.375	—	91.375	91.375	-	91.375
Lead	Cents/lb.	16	2.277	13.723			
Copper	Cents/lb.	31.517	6.902	24.615	31.517	6.125	25.392
Zinc	Cents/lb.				13.5	0.5974	12.9026

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD ~~OR~~ COPPER CONCENTRATES ~~OR CRUDE~~

Ratio of Concentration: 12.03:1
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$		$
Silver	92.02	Oz.	-	92.02	92.02	95	87.419	Oz.	0.91375	79.88		
Lead	46.00	%	1.0	45.00	900	90	810	lbs.	0.13723	111.16		
Copper	8.89	%	0.75	8.14	162.8	100	162.8	lbs.	0.24615	40.07		
TOTAL PAYMENTS FOR METALS										231.11		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 8.00	$	
Lead Assay Adjustment (50-46) $0.10	0.40		
Zinc Penalty 7.10-12.00	—		
~~Bismuth Penalty~~ Spl. Pb Pnty. 46 (15-10) $0.015		3.45	
Labor ($2.242 - 1.948) 6	2.06		
Bullion Tax Included in R&D.			
Freight: [($8.94 + 3%) ÷ 0.90] plus switch $0.20	10.43		
TOTAL TO DEDUCT	20.89	3.45	17.44
NET RETURN PER TON OF CONCENTRATE			$213.67
NET RETURN PER TON OF CRUDE ORE @ 8.31%			$17.76
TOTAL NET RETURN 93.5 tons			$ 19 978.15

ZINC CONCENTRATE

Ratio of Concentration 6.17:1
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$		$
Silver	3.80	Oz.	-	3.80	3.80	80	3.04	Oz.	0.91375	2.78		
Lead	0.30	%	1.5	—	—	—	—	lbs.	-	-		
Copper	0.85	%	-	0.85	17.	65	11.05	lbs.	0.25392	2.81		
Zinc	51.00	%	-	51.00	1020.	83.5	851.7	lbs.	0.129026	109.89		
TOTAL PAYMENTS FOR METALS										115.48		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 37.50	$	
Labor Adjustment ($2.332 - 2.000) 15	4.98		
Spelter Price Adjustment (13.5 - 8.0) $1.25	6.88		
TOTAL BASE CHARGE			
Spelter Tax Included in R&D.			
Fe+Mn (11.5 - 7.5) $0.50	2.00		
Freight ($6.30 + 3%) ÷ 0.90 Truck to Sulphur	7.21		
($5.15 + 15% + 6% + 5% + 3%) ÷ 0.90 Rail to Amarillo	7.54		
TOTAL TO DEDUCT	66.11		66.11
NET RETURN PER TON OF CONCENTRATE			$49.37
NET RETURN PER TON OF CRUDE ORE @ 16.31%			$8.00
TOTAL NET RETURN 182.4 tons.			$ 9 005.09
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT			$25.76 $ 28 983.24

Orig cc Correct A.B.R. Approved J.F.F.

No. 5004
CODE 45-504

5/20/57

Keystone Unit
April 1957 DCIEA Production
DCIEA-3866 Contract Idm-E 903

Lot D-12

Assay	Tons	Ag	Pb	Cu	Zn.
2000 Union Dr. N	270	14.88	3.32	0.60	11.76
20-55-1 Stope	722	6.88	3.69	1.16	8.29
20-56-1 Stope	133	5.55	7.60	0.87	8.60

Content { oz / Tons.					
2000 Union Dr. N	270	4018.	8964	1620	31752
20-55-1 Stope	722	4967	26642	8375	59854
20-56-1 Stope	133	738	10108	1157	11438
Total	1125	9723	45714	11152	103044

Average Assay.		8.64	4.06	0.99	9.16

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

224 New Customhouse
Denver 2, Colorado

Date: May 6, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty payments, Docket DMEA 3866 (Lead-Zinc-Copper), Contract Idm-E903, American Smelting & Refining Company (Keystone Mine) Gunnison County, Colorado
Period: April, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
Feb. 1957	D-10	154.800	$835.68	$835.68		
Mar. 1957	D-11	98.000	415.81	415.81		
Totals:		252.800	$1,251.49	$1,251.49		

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DMEA
RECEIVED MAY 8 1957

DATE	INITIALS	CODE
5/8	C	220
5/8	[illegible]	500

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 747.117

E. M. Hirschman
XXXXXXXXXXXX
Acting Executive Officer

vj

cc: Royalty File E 903 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheets
Chron.

KEYSTONE UNIT

Docket: DMEA 3866
Contract No. Idm - E903

RECEIVED
MAY 8 1957
D.M.E.A.

Calculation of Royalty -

Lot D-10 February 1957

from

Drifts: 2000 N and 2160 N.
Stopes: 2055-1, 2056-1, and 2157-1.

Tons	Assay			
	AG	Pb	Cu	Zn
1355	3.42	2.69	0.52	3.88

	Tons Conct.	Net Smelter Value/ton.	Total Net Value	Royalty @ 5%
Lead Conct.	67.8	$184.01	$12,475.88	$ 623.79
Zinc Conct.	87.0	48.71	4,237.77	211.89
Total			$16,713.65	$ 835.68

Docket: DMEA-3866 Contract No. Idm-E 903 DATE: March, 1957

REF.

SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit, Feb. 1957 Production

[redacted] from: 2000 N Drift, 2160 N Drift, and Stopes 2055-1, 2056-1, 2157-1

METALLURGICAL RESULTS – BASED ON Lot D-10 ~~TONS~~

PRODUCTS	DRY WEIGHTS Tons.	% TOTAL	ASSAYS Au	Ag	PER CENT Pb	Cu	Zn	Fe + Mn.		RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn		RATIO OF CONCENTRATION
Heads	1355	100.00		3.48	2.69	0.52	3.38								
Lead Conct.	67.8	5.00		58.22	49.00	6.96	5.00			85.1	91.1	66.9	6.4		20.00:1
Zinc Conct.	87.0	6.42		3.10	0.30	0.75	51.00	12.0		5.8	0.7	9.3	84.4		15.58:1
Tailing		88.58		0.35	0.25	0.14	0.40			9.1	8.2	23.8	9.1		
										100.0	100.0	100.0	99.9		

FINANCIAL STATEMENT U. S. CY.

Feb. 1957 Avg. METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.	$		
SILVER - PER TROY OZ.	0.91375		
LEAD - PER LB.	0.16		
COPPER - PER LB. dom. ref	0.32576		
ZINC - PER LB.	0.135		

NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE
BASIS "A"	$	$
Lead Conct.	184.01	9.20
Zinc Conct.	48.71	3.13
Total		12.33
BASIS "B"		
BASIS "C"		

FORM S. L. 1M 12-23-47

ABR
JF 3/26/57

FORM H-22

Docket: DMEB 3866 Contract No. Idm E 903

ORE AND CONCENTRATE LIQUIDATION SHEET

(Feb. 1957 Production from Drifts 2000N

Mine Keystone {8216ON, Stope 2055-1, 2056-1, 2157-1

Mill Lot No.
Mine Lot No. D-10
Class
Date Mar. 26, 1957

METAL PRICES

METAL	UNIT	LEAD ~~OR~~ COPPER CONCTS. ~~OR CRUDE~~ Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	91.375	–	91.375	91.375	–	91.375
Lead	Cents/lb.	16.	2.277	13.723			
Copper	Cents/lb.	32.576	6.902	25.674	32.576	6.125	26.451
Zinc	Cents/lb.				13.5	0.5974	12.9026

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD ~~OR~~ COPPER CONCENTRATES ~~OR CRUDE~~

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	58.22	Oz.	–	58.22	58.22	95	55.309	Oz.	0.91375	50.54		
Lead	49.00	%	1.0	48.00	960.	90	864.	lbs	0.13723	118.57		
Copper	.696	%	0.75	6.21	124.2	100	124.2	lbs.	0.25674	31.87		
TOTAL PAYMENTS FOR METALS										201.00		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 8.00	$
Lead Assay Adjustment (50-49) $0.10	0.10	
Zinc Penalty (5.0-12.0) =		
~~Bismuth Penalty~~ Sol. Pb 49 (15-10) $0.05		3.68
Labor ($2.304 - $1.948) 6	2.14	
Bullion Tax Included in R&D.		
Freight: ($8.94 + 3%) ÷ 0.90 Plus Silver $0.20	10.43	
TOTAL TO DEDUCT	20.67	3.68

TOTAL TO DEDUCT	16.99	
NET RETURN PER TON OF CONCENTRATE	184.01	
NET RETURN PER TON OF CRUDE ORE @ 5.00%		9.20
TOTAL NET RETURN 67.3 tons		$13475.88

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	3.10	Oz.	–	3.10	3.10	80	2.48	Oz.	0.91375	2.27		
Lead	0.30	%	1.5	—				lbs.				
Copper	0.75	%	–	0.75	15.	65	9.75	lbs.	0.26451	2.58		
Zinc	51.00	%	–	51.00	1020.	83.5	851.7	lbs.	0.129026	109.89		
TOTAL PAYMENTS FOR METALS										114.74		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 39.50	$
Labor Adjustment ($2.310 - 2.000) 15	4.65	
Spelter Price Adjustment (13.5-8.0) $1.25	6.88	
TOTAL BASE CHARGE		
Spelter Tax = Included in R&D.		
Fe + Cu (12.0 - 7.5) $0.50	2.25	
Freight ($6.30 + 3%) ÷ 0.90 Truck to Salida	7.21	
($5.15 + 15% + 6% + 5% + 3%) ÷ 0.90 R.R. to Hamm Mill	7.54	
TOTAL TO DEDUCT	66.03	

TOTAL TO DEDUCT	66.03	
NET RETURN PER TON OF CONCENTRATE	48.71	
NET RETURN PER TON OF CRUDE ORE @ 6.42%		3.13
TOTAL NET RETURN 87.0 Tons		$4237.77
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT		$17073.65

Orig. cc Correct

Approved

No. 5004
CODE 45-504

3/26/57

DCMEA-3866
Idm - E903

Keystone Unit
Feb. 1957 DCMEA Production

Vein	Assay	Tons	Ag	Pb	Cu	Zn
Union	2000 N. Drift	133	4.8	3.0	0.4	6.2
Union	2160 N Drift	249	5.0	0.8	1.0	2.1
"	2055-1 Stope	570	1.8	1.4	0.3	3.9
"	2056-1 Stope	377	4.4	5.9	0.6	4.3
"	2157-1 Stope.	26	2.6	0.9	0.4	2.6

Content {Oz / Tons					
2000 N Drift	133	638	3990	0.532	8.246
2160 N Drift	249	1245	1.992	2.490	5.229
2055-1 Stope	570	1026	7.980	1.710	22.230
2056-1 Stope	377	1659	22.243	2.262	16.211
2157-1 Stope.	26	68	0.234	0.104	0.676
Total	1355	4636	36.439	7.098	52.592
Average Assay	1355	3.42	2.69	0.52	3.88

KEYSTONE UNIT

Docket: DMEA 3866
Contract No. Idm E 903

RECEIVED
MAY 8 1957
D.M.E.A.

Calculation of Royalty

Lot D-11 March 1957

from

March 1957 Production (DMEA).

Tons	Assay			
	Ag	Pb	Cu	Zn
794	3.36	1.49	0.40	5.37

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Lead Conct.	23.3	$201.27	$4,689.59	$ 234.48
Zinc Conct.	74.7	48.55	3,626.69	181.33
Total			$8,316.28	$ 415.81

DMEA
DEPARTMENT OF THE INTERIOR
APR 30 1957
REGION III
DENVER, COLORADO

E903

Docket: DMEA 3866 Contract No. Idm E 903 DATE: April 24, 1957

REF.:

SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit, March 1957 Production (DMEA)

[redacted] for sources see attached list

METALLURGICAL RESULTS — BASED ON Lot D-11 ~~TONS~~

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS Au	ASSAYS Ag	ASSAYS PER CENT Pb	ASSAYS PER CENT Cu	ASSAYS PER CENT Zn	ASSAYS PER CENT	ASSAYS PER CENT Fe + Mn	RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	RECOVERIES Pb	RECOVERIES Cu	RECOVERIES Zn	RATIO OF CONCENTRATION
Heads	794			3.36	1.49	0.40	5.37							
Lead Concr.	23.3	2.93		88.78	43.26	8.45	7.43			77.4	85.1	61.9	4.1	34.13:1
Zinc Concr.	74.7	9.41		3.59	0.28	0.78	50.35		11.80	10.1	1.8	18.3	89.1	10.63:1
Tailing	696.0	87.66		0.47	0.22	0.09	0.42			12.3	12.9	19.7	6.8	
		100.00								99.8	99.8	99.9	100.0	

FINANCIAL STATEMENT

March 1957 Avg. METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	$ 0.91375		
LEAD - PER LB.	$ 0.16		
COPPER - PER LB. Com. Ref.	$ 0.31452		
ZINC - PER LB.	$ 0.125		

NET VALUE CRUDE ORE LESS COSTS

NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

U. S. CY.

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE
BASIS "A"		
Lead Concr.	$ 201.27	$ 5.90
Zinc Concr.	48.55	4.57
Total		$ 10.47
BASIS "B"		
BASIS "C"		

FORM S. C. IM. 12-23-47

RCT UFR 4/24/57

Irene Roth

No. 5004
CODE 49 5T0

4/19/57

Keystone Unit
March 1957 DMEA Production

DMEA - 3866
Idm - E 903

Vein	Assay	Tons	Ag	Pb	Cu	Zn.
Union	1850 Union N. Drift	87	0.99	0.32	0.07	0.80
"	2000 Union N. Drift	122	6.76	1.22	0.70	6.49
"	20-55-1 Raise	125	1.08	1.29	0.09	1.72
"	20-55-1 Stope	238	2.86	1.12	0.43	9.66
"	20-56-1 Stope	85	6.93	6.62	0.59	5.64
"	21-57-1 Stope	137	2.55	0.09	0.45	3.00
	Content { oz. / tons.					
	1850 Union N. Drift	87	86	0.278	0.061	0.696
	2000 Union N. Drift	122	825	1.488	0.854	7.918
	20-55-1 Raise	125	135	1.613	0.113	2.150
	20-55-1 Stope	238	681	2.666	1.023	22.991
	20-56-1 Stope	85	589	5.627	.502	4.794
	21-57-1 Stope.	137	349	0.123	.617	4.110
	Total	794	2665	11.795	3.170	42.659
	Average Assay		3.36	1.49	040	537

DMEA
DEPARTMENT OF THE INTERIOR
APR 30 1957
REGION III
DENVER, COLORADO

FORM H-22

Docket: DME[redacted]3866 Contract No. Idm[redacted]903 Mill Lot No.

ORE AND CONCENTRATE LIQUIDATION SHEET

Mine Lot No. D-11

Class

1 Mine Keystone ~~Unit~~ March 1957 DMEA Prod. Date April 24, 1957

METAL PRICES

METAL	UNIT	LEAD ~~OR~~ COPPER CONCTS. ~~OR CRUDE~~ Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	91.375	–	91.375	91.375	–	91.375
Lead	Cents/lb.	16	2.277	13.723	–	–	–
Copper	Cents/lb.	31.452	6.902	24.550	31.452	6.125	25.327
Zinc	Cents/lb.	–	–	–	13.5	0.5974	12.9026

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist. %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD ~~OR~~ COPPER CONCENTRATES ~~OR CRUDE~~

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	88.78	Oz.	–	88.78	88.78	95	84.34	Oz.	0.91375	77.07		
Lead	43.36	%	1.0	42.36	845.2	90	760.68	lbs.	0.13723	104.39		
Copper	8.45	%	0.75	7.70	154.0	100	154.0	lbs.	0.24550	37.81		
TOTAL PAYMENTS FOR METALS										219.27		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 8.00	$
Lead Assay Adjustment (50 – 43.36) $0.10	0.67	
Zinc Penalty (7.43 – 12.0)		3.24
~~Bismuth Penalty~~ Spl. Pb. 43.36 (15 – 10) $0.015		
Labor ($2.304 – 1.943) 6	2.14	
Bullion Tax Included in R&D.		
Freight: ($8.94 + 3%) ÷ 0.90 Plus Switch $0.20	10.43	
TOTAL TO DEDUCT	21.24	3.24

	18.00	
NET RETURN PER TON OF CONCENTRATE	201.27	
NET RETURN PER TON OF CRUDE ORE @ 2.73%	5.90	
TOTAL NET RETURN 23.3 tons		4689.59

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	3.59	Oz.	–	3.59	3.59	80	2.872	Oz.	0.91375	2.62		
Lead	0.28	%	1.5	–	–	–	–	lbs.	–	–		
Copper	0.78	%	–	0.78	15.6	65	10.14	lbs.	0.25327	2.57		
Zinc	50.85	%	–	50.85	1017.	83.425	848.432	lbs.	0.129026	109.47		
TOTAL PAYMENTS FOR METALS										114.66		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 57.50	$
Labor Adjustment ($2.322 – 2.000) 15	4.83	
Spelter Price Adjustment (13.5 – 8.0) $1.25	6.88	
TOTAL BASE CHARGE		
Spelter Tax Included in R&D.		
Fe + Cu: (11.80 – 7.5) $0.50	2.15	
Freight ($6.30 + 3%) ÷ 0.90 Truck to Santa	7.21	
($5.15 + 15% + 6% + 5% + 3%) ÷ 0.90 Rail to Amarillo	7.54	
TOTAL TO DEDUCT	66.11	66.11

NET RETURN PER TON OF CONCENTRATE	48.55	
NET RETURN PER TON OF CRUDE ORE @ 7.41%	4.57	
TOTAL NET RETURN 74.7 tons		3636.69
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT	6.47	

Orig cc Correct PCT J.F.F. Approved [illegible] 6.2[illegible]

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

224 New Customhouse
Denver 2, Colorado

Date: April 4, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty payments, Docket DMEA 3866 (Lead-Zinc-Copper), Contract Idm-E903, American Smelting & Refining Company (Keystone Mine), Gunnison County, Colorado
Period: March, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
Jan. 1957	D-9	166.130	$812.62	$812.62		
Totals:		166.130	$812.62	$812.62		

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DMEA
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DATE	INITIALS	CODE
4/9	C	220
4/9	[illegible]	500

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 494.317

E. M. Hardman

XXXXXXXXXXXXX
Acting Executive Officer

vj
cc: Royalty File E 903 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheet
Chron.

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DMEA
RECEIVED APR 8 1957

DATE	INITIALS	CODE

KEYSTONE UNIT

Docket: DMEA 3866
Contract No. Idm - E903

Calculation of Royalty -

Lot D-9 January 1957 (20-56 Stope and 2000 Face)

Tons	Assay			
	Ag	Pb	Cu	Zn
803	6.10 oz.	3.73%	0.50%	8.10%

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Lead Conct.	51.6	$ 206.69	$10,665.20	$ 533.26
Zinc Conct.	115.7	48.29	5,587.15	279.36
Total			$16,252.35	$ 812.62

Docket: DMEA 3866 Contract No. Idm E 903

FORM H-22

ORE AND CONCENTRATE LIQUIDATION SHEET

Mill Lot No.
Mine Lot No. D-9
Class
Date Feb. 1957

Mine Keystone {Jan. 1957 Production from 2000 Level N. Fac and 20-56 Stope

METAL PRICES

METAL	UNIT	LEAD ~~OR~~ COPPER CONCTS. ~~OR CRUDE~~ Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	91.375	-	91.375	91.375	-	91.375
Lead	Cents/lb.	16.	2.277	13.723			
Copper	Cents/lb.	35.526	6.902	28.624	35.526	6.125	29.401
Zinc	Cents/lb.				13.5	0.5974	12.9026

WEIGHTS CRUDE ORE

Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD ~~OR~~ COPPER CONCENTRATES ~~OR CRUDE~~

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	81.54	Oz.	—	81.54	81.54	95	77.463	Oz.	0.91375	70.78		
Lead	53.00	%	1.0	52.00	1040.	90	936.	lbs.	0.13723	128.45		
Copper	4.98	%	0.75	4.23	84.6	100	84.6	lbs.	0.28624	24.22		
TOTAL PAYMENTS FOR METALS										223.45		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 8.00	$
Lead Assay Adjustment (53-50) $0.10 Cr.		0.30
Zinc Penalty		
~~Bismuth Penalty~~ Spl. Pb Pay 50 ($0.075)		3.75
Labor ($2.344 - 1.948) 6	2.38	
Bullion Tax Included in R&D.		
Freight: ($8.94 + 3%) ÷ 0.90, Plus switch $0.20	10.43	
TOTAL TO DEDUCT	20.81	4.05

TOTAL TO DEDUCT		16.76	
NET RETURN PER TON OF CONCENTRATE		206.69	
NET RETURN PER TON OF CRUDE ORE @ 6.43%			13.29
TOTAL NET RETURN 51.6 Tons			10665.20

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	3.80	Oz.	-	3.80	3.80	80	3.04	Oz.	0.91375	2.78		
Lead	0.68	%	1.5	—				lbs.				
Copper	0.76	%	-	0.76	15.2	65	9.88	lbs.	0.29401	2.90		
Zinc	50.50	%	-	50.50	1010.	83.85	840.83	lbs.	0.129026	108.49		
TOTAL PAYMENTS FOR METALS										114.17		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 37.50	$
Labor Adjustment ($2.300 - 2.000) 15	4.50	
Spelter Price Adjustment (13.5 - 8.0) $1.25	6.88	
TOTAL BASE CHARGE		
Spelter Tax Included in R&D.		
Fe + Mn (12.0 - 7.5) $0.50	2.25	
Freight ($6.30 + 3%) ÷ 0.90 Truck to Salida	7.21	
($5.15 + 15% + 6% + 5% + 3%) ÷ 0.90 Rail to Monarch	7.54	
TOTAL TO DEDUCT	65.88	

TOTAL TO DEDUCT		65.88	
NET RETURN PER TON OF CONCENTRATE		48.29	
NET RETURN PER TON OF CRUDE ORE @ 14.41%			6.96
TOTAL NET RETURN 115.7 Tons.			5587.15
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT			20.35

Orig cc Correct Idm E903 Approved Nelson Proctor

Docket: DMEA 3866 Contract No. Idm. E-703 DATE: Feb. 1957

REF.:

SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit, Jan. 1957 Production

~~[illegible]~~ from 2000 Level N. Face and 30-56 Stope.

METALLURGICAL RESULTS — BASED ON Lot D-9 TONS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS PER CENT Au	Ag	Pb	Cu	Zn	Fe + Mn.	RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn	RATIO OF CONCENTRATION
Heads	803.	100.00		6.10	3.73	0.50	8.10		100	100	100	100	
Lead Conct.	51.6	6.43		81.54	53.00	4.98	7.50		86.0	91.4	64.0	6.0	15.56:1
Zinc Conct.	115.7	14.41		3.80	0.68	0.76	50.50	12.0	9.0	2.6	21.9	89.8	6.94:1
Tailing		79.16		0.39	0.28	0.09	0.43		5.1	5.9	14.2	4.2	
									100.1	99.9	100.1	100.0	

FINANCIAL STATEMENT

U. S. CY.

Jan. 1957 Avg. METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	$0.91375		
LEAD - PER LB.	0.16		
COPPER - PER LB. dom. ref.	0.35526		
ZINC - PER LB.	0.135		

NET VALUE CRUDE ORE LESS COSTS

NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE
BASIS "A"		
Lead Conct.	$206.69	$13.29
Zinc Conct.	48.29	6.96
		30.25
BASIS "B"		
BASIS "C"		

FORM S. L. 1M 12-23-47

2/10/57 No. 5004 CODE 45-504

DMEA 3[illegible]6
Idm E-903.

Keystone Unit
Jan 1957 DMEA Production

	Tons.	Hg	Pb	Cu	Zn.
Assay.					
2000 N. Drift	567	7.1	3.2	0.5	7.8
20-56 Stope	236	3.7	5.0	0.5	4.0
Content - {Oz / Lbs}					
2000 N Drift.	567	4026	18,144	2835	55566
20-56 Stope.	236	873	11,800	1,180	9440
Total	803	4899	29,944	4,015	65006
Average Assay	803	6.10	3.73	0.50	8.10

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D M E A
RECEIVED APR 8 1957

DATE	INITIALS	CODE

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

224 New Customhouse
Denver 2, Colorad

Date: February 7, 1957

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field TEam, Region III
Subject: Royalty payments, Docket DMEA 3866 (Lead-Zinc-Copper), Contract Idm-E903, American Smelting & Refining Company (Keystone Mine), Gunnison County, Colorado
Period: January, 1957

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
Dec. 1956	D-8	66.6	$318.65	$318.65		
Totals:		66.6	$318.65	$318.65		

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DMEA
RECEIVED FEB 11 1957

DATE	INITIALS	CODE
2-11	C	220
2/12	WRB.	500
	Klug	

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 328.187

W. M. Traver

W. M. Traver

vj
cc: Royalty File E 903 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheet
Chron.

RECEIVED
FEB 11 1957
D.M.E.A.

KEYSTONE UNIT

Docket DMEA 3866
Contract No. Idm - E903

Calculation of Royalty -

Lot D-8 December 1956 (20-56 Stope)

Tons	Assay Ag	Assay Pb	Assay Cu	Assay Zn
500	3.3 oz.	2.3%	0.5%	4.9%

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Lead Conct.	22.5	$189.93	$4,273.43	$ 213.67
Zinc Conct.	44.1	47.61	2,099.60	104.98
Total			$6,373.03	$ 318.65

E903

FORM M-22

ORE AND CONCENTRATE LIQUIDATION SHEET

Doc 4st DAEM 3806

Mill Lot No
Mine Lot No. D-8
Class Dec 1956 from Stope 20-56
Date Jan. 1957

Mine Keystone ~~Unit~~ Contract No. Idaho-E 703

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	91.375	–	91.375	91.375	–	91.375
Lead	Cents/lb.	16.0	2.211	13.789			
Copper	Cents/lb.	35.649	6.836	28.813	35.649	6.125	29.524
Zinc	Cents/lb.				13.5	0.5665	12.9335

WEIGHTS CRUDE ORE		
Net Weight		lbs.
Moist. %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

Ratio of Concentration
Mill Ore:

LEAD OR COPPER CONCENTRATES OR CRUDE

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	60.87	Oz.	–	60.87	60.87	95	57.83	Oz.	0.91375	53.84		
Lead	46.82	%	1.0	45.82	916.4	90	824.76	lbs.	0.13789	113.73		
Copper	7.78	%	0.75	7.03	140.6	100	140.6	lbs.	0.28813	40.51		
TOTAL PAYMENTS FOR METALS										207.08		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 8.00	$
Lead Assay Adjustment (50.00 – 46.82) $0.10	0.32	
Zinc Penalty		
Bismuth Penalty (@ 2.266 – @ 1.945) 6 Labor.	1.71	
Bullion Tax included in R.P.A.		
Freight: (@ 9.14 + 3%) ÷ 0.90 plus Salida $0.20	10.73	
Spl. Load Tax. 46.82 x $0.075		3.51
TOTAL TO DEDUCT	20.66	3.51
NET RETURN PER TON OF CONCENTRATE		17.15
NET RETURN PER TON OF CRUDE ORE @ 4.53%		189.93
TOTAL NET RETURN		8.55
		4273.43

RECEIVED FEB 11 1957 D.M.E.A.

Ratio of Concentration
Mill Ore.

ZINC CONCENTRATE

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	3.50	Oz.	–	3.50	3.50	80	2.80	Oz.	0.91375	2.56		
Lead	0.30	%	1.5	–	–	–	–	lbs.	–	–		
Copper	0.80	%	–	0.80	16.	65	10.4	lbs.	0.29524	3.07		
Zinc	50.00	%	–	50.00	1000.	83	830.	lbs.	0.129335	107.35		
TOTAL PAYMENTS FOR METALS										112.98		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 37.50	$
Labor Adjustment (@ 2.289 – 2.000) 15	4.34	
Spelter Price Adjustment (13.5 – 8.0) $1.25	6.88	
TOTAL BASE CHARGE		
Spelter Tax included in R.P.A.		
Fe + Mn (12.0 – 7.5) $0.50	2.25	
Freight (@ 6.30 + 3%) ÷ 0.90 Truck to Salida	7.21	
(@ 5.15 + 15% + 6% + 3%) ÷ 0.90 Salida to Hawthorne	7.19	
TOTAL TO DEDUCT	65.37	
NET RETURN PER TON OF CONCENTRATE		65.37
NET RETURN PER TON OF CRUDE ORE @ 8.62%		47.61
TOTAL NET RETURN		4.20
		2099.60
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT		@ 12.75 6373.03

Orig cc Correct JF Approved

Docket: DMEA 3866
Contract No. Idm-E 903

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

DATE: Jan. 1957
REF.:
SUPPORTING DATA:

ORE Keystone Unit - American Smelting & Refining Co.
~~PROCESS~~ December 1956 Production from 20-35 Stope
Lot D-8

METALLURGICAL RESULTS — BASED ON TONS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS Au	ASSAYS Ag	ASSAYS PER CENT Pb	ASSAYS PER CENT Cu	ASSAYS PER CENT Zn	ASSAYS PER CENT Fe + Mn	RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	RECOVERIES Pb	RECOVERIES Cu	RECOVERIES Zn	RATIO OF CONCENTRATION
Feed	500.0	100.00		3.30	2.30	0.50	4.90						
Lead Conct.	22.5	4.50		60.87	46.82	7.78	4.90		83.0	91.6	70.0	4.5	22.22:1
Zinc Conct.	44.1	8.82		3.50	0.30	0.80	50.00	12.0	9.4	1.2	14.1	90.0	11.34:1
Tailing	433.4	86.68		0.29	0.19	0.09	0.31		7.6	7.2	15.6	5.5	
									100.0	100.0	99.7	100.0	

FINANCIAL STATEMENT

U. S. CY.

Dec 1956 Avg. METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	$0.91375		
LEAD - PER LB.	0.16		
COPPER - PER LB. Dom. Ref.	0.35647		
ZINC - PER LB.	0.135		

NET VALUE CRUDE ORE LESS COSTS

NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE
BASIS "A"		
Lead Conct.	$189.93	$8.55
Zinc Conct.	47.61	4.20
		12.75
BASIS "B"		
BASIS "C"		

FORM S. L. IM 12-23-47

RECEIVED
18 11 1957
D.M.E.A.

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

RECEIVED OCT 12 1956

224 New Customhouse
Denver 2, Colorado

Date: October 9, 1956

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty payments, Docket DMEA 3866 (Lead-Zinc-Copper), Contract Idm-E903, American Smelting & Refining Company (Keystone Mine), Gunnison County, Colorado
Period: September, 1956

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
1956						
July	D-6	34.620	$178.85	$178.85		
Aug.	D-7	19.627	113.03	113.03		
Totals:		54.247	$291.88	$291.88		

Past Due Royalties Collected None

Total Dry Tons (Ore or Cons.) Shipped to Date 261.587

E. M. Hardman
for W. M. Traver

vj
cc: Royalty File E 903 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheets
Chron.

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

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224 New Customhouse
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To: Chairman, Operating Committee, DMEA
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E. N. Harshman

W. M. Traver

vj
cc: Royalty File E 903 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheets
Chron.

RECEIVED
OCT 1 2 1956

KEYSTONE UNIT

DOCKET DMEA-3866

CONTRACT Idm-E903

CALCULATION OF ROYALTY

LOT D-6 JULY 1956

		Assay			
	Tons	Ag	Pb	Cu	Zn
	284	2.2 oz.	2.2%	0.7%	4.4%

	Tons Conct.	Net Smelter Value/Ton	Total Net Value	Royalty @ 5%
Pb Conct.	13.462	$183.92	$2,475.93	$123.80
Zn Conct.	21.158	$ 52.04	$1,101.06	$ 55.05
Total				$178.85

DMEA
DEPARTMENT OF THE INTERIOR
AUG 31 1956
REGION III
DENVER, COLORADO

DMEA
DEPARTMENT OF THE INTERIOR
AUG 31 1956
REGION III
DENVER, COLORADO

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE KEYSTONE UNIT
July 1956 Production of Development
PROCESS Ore from the 21-56-1 Union Raise

DATE: Aug. 20, 1956
REF.:
SUPPORTING DATA:

METALLURGICAL RESULTS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS PER CENT Au	Ag	Pb	Cu	Zn				RECOVERIES PER CENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn		RATIO OF CONCENTRATION
Feed	284	100.00		2.20	2.20	0.70	4.40				100.0	100.1	100.1	100.0		
Lead Concts.	13.462	4.74		31.29	42.28	11.46	4.85				67.4	91.1	77.6	5.2		21.097
Zinc Concts.	21.158	7.45		3.14	.30	.81	51.50				10.6	1.0	8.6	87.2		13.423
Tail		87.81		.55	.20	.11	.38				22.0	8.0	13.9	7.6		

FINANCIAL STATEMENT

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	90.137		
LEAD - PER LB.	16.000		
COPPER - PER LB.	40.807		
ZINC - PER LB.	13.500		
NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT.	CRUDE ORE
BASIS "A"		
Lead Conct.	$183.92	$8.72
Zinc Conct.	52.04	3.88
Total		$12.60
BASIS "B"		
BASIS "C"		

FORM S.L. 500 10-56

RECEIVED
OCT 12 1956

July 1956 Production from 21-56-1 Union Raise

FORM M-22

ORE AND CONCENTRATE LIQUIDATION SHEET

Mill Lot No.
Mine Lot No. D-6
Class
Date Aug. 20, 1956

Mine
Unit KEYSTONE

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.	--	--		--	--	
Silver	Cents/Oz.	90.137	--		90.137	--	
Lead	Cents/lb.	16.000	2.211	13.789	--	--	
Copper	Cents/lb.	40.807	6.836	33.971	40.807	6.125	34.682
Zinc	Cents/lb.	--	--		13.500	.5665	12.9335

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE 4.74% wt.

Ratio of Concentration Mill Ore: 21.097

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold	--	Oz.	--	--	--	-	--	Oz.	$ --	$	$	$
Silver	31.29	Oz.	--	31.29	31.29	95	29.7255	Oz.	.90137	26.79		
Lead	42.28	%	1.00	41.28	~~[illegible]~~	90	743.040	lbs.	.13789	102.46		
Copper	11.46	%	.75	10.71	214.20	100	214.20	lbs.	.33971	72.77		
TOTAL PAYMENTS FOR METALS										202.02		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 8.00	$	
Lead Assay Adjustment (50.00-42.28).10	.77		
Zinc Penalty None	--		
Bismuth Penalty None	--		
Labor (2.309-1.948)6	2.17		
Bullion Tax Inc. in R. & D.	--		
Freight: (8.94 + 3%)+ 90 - .10 switch	10.33		
Special Pb Payment = 42.28 x 1½ x 5		3.17	
TOTAL TO DEDUCT	21.27	3.17	18.10
NET RETURN PER TON OF CONCENTRATE			183.92
NET RETURN PER TON OF CRUDE ORE			8.72
TOTAL NET RETURN			

ZINC CONCENTRATE 7.45% Wt.

Ratio of Concentration Mill Ore: 13.423

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold	--	Oz.	-	-	--	-	--	Oz.	$ --	$ --	$	$
Silver	3.14	Oz.	-	3.14	3.14	80	2.512	Oz.	.90137	2.26		
Lead	--	%	-	--	--	--	--	lbs.	--	--		
Copper	0.81	%	-	0.81	16.20	65	10.530	lbs.	.34682	3.65		
Zinc	51.50	%	-	51.50	1030.00	83.75	862.625	lbs.	.129335	111.57		
TOTAL PAYMENTS FOR METALS										117.48		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 37.50	$	
Labor Adjustment (2.304 - 2.00) x 15	4.56		
Spelter Price Adjustment ($13.50 - 8.00) = 1¼	6.88		
TOTAL BASE CHARGE			
Spelter Tax Inc. in R.&D.	--		
Fe + Mn 10.70 + 1.00 - 7.5 - 4.20 x 50¢	2.10		
Freight To Salida (6.30 + 3%)/.90	7.21		
Salida to Amarillo (6.28 + 3%)/.90	7.19		
Zn, 51.50 - 50.00 = 1.50 x ½% = .75%			
TOTAL TO DEDUCT	65.44		65.44
NET RETURN PER TON OF CONCENTRATE			52.04
NET RETURN PER TON OF CRUDE ORE			3.88
TOTAL NET RETURN			
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT			$12.60

DMEA
DEPARTMENT OF THE INTERIOR
AUG 31 1956
REGION III
DENVER, COLORADO

Orig cc Correct W. M. Christopherson Approved Robert Wolf

RECEIVED
OCT 13 1963

KEYSTONE UNIT
DOCKET D.M.E.A.-3866
CONTRACT Idm-E903
CALCULATION OF ROYALTY

Lot D-7 August 1956

Tons	Assay			
	Ag	Pb	Cu	Zn
282	2.20	1.40	0.50	2.40

	Tons Conct.	Net Smelter Value/Ton	Total Net Value	Royalty @ 5%
Lead Conct.	8.770	$ 195.52	$ 1,714.71	$ 85.74
Zinc Conct.	10.857	$ 50.28	$ 545.89	27.29
Total				$ 113.03

FORM H-22

August 1956 Production 2156 Raise

ORE AND CONCENTRATE LIQUIDATION SHEET

Mill Lot No. 21-56-1 Raise
Mine Lot No. D-7
Class

Mine | Unit Keystone | Date 9-13, 1956

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.	-	-	-	-	-	-
Silver	Cents/Oz.	90.614	-	90.614	90.614	-	90.614
Lead	Cents/lb.	16.000	2.211	13.789	-	-	-
Copper	Cents/lb.	39.625	6.836	32.789	39.625	6.125	33.500
Zinc	Cents/lb.	-	-	-	13.500	.5665	12.9335

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE

Ratio of Concentration
Mill Ore: 32.15:1

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold	-	Oz.	-	-	-	-	-	Oz.	$	$	$	$
Silver	53.00	Oz.	-	53.00	53.00	95	50.35	Oz.	.90614	45.62		
Lead	39.60	%	1.00	38.60	772.0	90	694.80	lbs.	.13789	95.81		
Copper	11.83	%	.75	11.08	221.6	100	221.60	lbs.	.32789	72.66		
TOTAL PAYMENTS FOR METALS										214.09		

DEDUCTIONS	DR.	CR.	VALUE		
Base Treatment Charge	$ 8.00	$			
Lead Assay Adjustment 50.00 - 39.60 = 10.40	1.04				
Zinc Penalty	-				
Bismuth Penalty	-				
Labor (2.309-$1.948) x 6	2.17				
Bullion Tax Inc. in R.&D.					
Freight: (8.94 + 3%) ÷ 0.90 + 10¢ Switch	10.33				
Special Lead 39.60 x $.075		2.97			
TOTAL TO DEDUCT	21.54		18.57		
NET RETURN PER TON OF CONCENTRATE			195.52		
NET RETURN PER TON OF CRUDE ORE				6.08	
TOTAL NET RETURN					

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore: 25.97:1

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	3.00	Oz.	-	3.00	3.00	80	2.40	Oz.	.90614	2.17		
Lead	-	%	-	-	-	-	-	lbs.	-	-		
Copper	.78	%	-	.78	15.6	65	10.14	lbs.	.33500	3.40		
Zinc	51.00	%	-	51.00	1020.0	83.5	851.70	lbs.	.129335	110.15		
TOTAL PAYMENTS FOR METALS										115.72		

DEDUCTIONS	DR.	CR.	VALUE		
Base Treatment Charge	$ 37.50	$			
Labor Adjustment $2.304 - 2.00 = .304 x 15	4.56				
Spelter Price Adjustment $13.50 - 8.00 = 5.50 x $1.25	6.88				
TOTAL BASE CHARGE					
Spelter Tax Inc. in R. & D.	-				
Fe + Mn = (10.70 + 1.00) - 7.5 = 4.20 x $0.50	2.10				
Freight To Salida (6.30 + 3%) ÷ .90	7.21				
Salida to Amarillo (6.28 + 3%) ÷ .90	7.19				
TOTAL TO DEDUCT	65.44		65.44		
NET RETURN PER TON OF CONCENTRATE			50.28		
NET RETURN PER TON OF CRUDE ORE				1.94	
TOTAL NET RETURN					$8.02

TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT

Orig | cc | Correct W. M. Christopherson | Approved Robert Probst

DATE: Sept. 13, 1956
REF.:
SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit
August 1956 Production of Development
PROCESS Ore from 2156 Raise

METALLURGICAL RESULTS — BASED ON D-7 TONS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS PER CENT Au	Ag	Pb	Cu	Zn				RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn	RATIO OF CONCEN-TRATION
Feed	282	100.00		2.20	1.40	0.50	2.40								
Lead Concts.	8.770	3.11		53.00	39.60	11.83	4.50				74.9	88.0	73.6	5.8	32.15:1
Zinc Concts.	10.857	3.85		3.00	.22	.78	51.00				5.3	0.6	6.0	81.8	25.97:1
Tails	262.373	93.04		.47	.17	.11	.32				19.9	11.3	20.5	12.4	
Total		100.00									100.1	99.9	100.0	100.0	

FINANCIAL STATEMENT U. S. CY.

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	90.614		
LEAD - PER LB.	16.000		
COPPER - PER LB.	39.625 Dom.Ref.		
ZINC - PER LB.	13.500		
NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE	
BASIS "A"			
Lead Conct.	$195.52	$ 6.08	
Zinc Conct.	$ 50.28	1.94	
Total		$ 8.02	
BASIS "B"			
BASIS "C"			

FORM S. L. 1M 12-23-47

OCT 1 1956 DECLASSIFIED

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

224 New Customhouse
Denver 2, Colorado

Date: August 8, 1956

RECEIVED AUG 13 1956

Memorandum

To: Chairman, Operating Committee, DMEA
From: Executive Officer, DMEA Field Team, Region III
Subject: Royalty payments, Docket DMEA 3866 (Lead-Zinc-Copper), Contract Idm-E903, American Smelting & Refining Company (Keystone Mine), Gunnison County, Colorado
Period: July, 1956

Enclosed are settlement sheets for which royalty payments were received for ore or concentrates shipped from the subject property during the above month:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.
1956						
Feb.	D-1	15.043	$96.28)			
Mar.	D-2	7.229	35.70)	$118.42	Requested per our letter 7/3/56 to Mr. Nolan Probst, Supt., American Smelting and Refining Company (The amount of $752.10 was paid in June, 1956 on these shipments)	
Apr.	D-3	7.100	37.90)			
May	D-4	116.750	700.64)			
			870.52			
June	D-5	61.218	322.00	322.00		
Totals:		207.340	$1,192.52	$440.42		

Past Due Royalties Collected — None

Total Dry Tons (Ore or Cons.) Shipped to Date — 207.340

W. M. Traver

vj
cc: Royalty File E903 w/settlement sheets
Monthly Royalty Payment File
J. F. Shaw (2) w/settlement sheets
Chron.

DATE: 6/15/56
REF.:
SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE KEYSTONE UNIT

PROCESS February 1956 Production of Development Ore from 2160 N. Drift.

METALLURGICAL RESULTS

LOT D-1

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS PER CENT Au	Ag	Pb	Cu	Zn	Fe			RECOVERIES PER CENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn		RATIO OF CONCENTRATION
Heads	256	100.00		3.5	0.4	0.5	2.5				100.0	100.0	100.0	100.0		
Lead Conct.	4.342	1.70		159.77	16.00	20.72	4.5				77.6	68.0	70.4	3.1		58.82:1
Zinc Conct.	10.701	4.18		4.5	0.15	1.08	51.00	10.6			5.4	1.6	9.0	85.3		23.92:1
Tailing	240.957	94.12		0.64	0.13	0.11	0.31				17.2	30.6	20.7	11.7		
											100.2	100.2	100.1	100.1		

FINANCIAL STATEMENT

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	90.901		
LEAD - PER LB.	16.		
COPPER - PER LB.	44.588 dom. ref.		
ZINC - PER LB.	13.5		

NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT.	CRUDE ORE	
BASIS "A"			
Lead Conct.	$304.56	$5.18	
Zinc Conct.	56.37	2.36	
Total		$7.54	
BASIS "B"			
BASIS "C"			

FORM S.L. 500 10-55

RECEIVED AUG 13 1956

FORM H-22

February Production 2160 N. Drift

ORE AND CONCENTRATE LIQUIDATION SHEET

RECEIVED AUG 13 1956

Mill Lot No.
Mine Lot No. D-1
Class
Date 6/15/56

Mine Unit KEYSTONE

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	90.901	---	90.901	90.901	--	90.901
Lead	Cents/lb.	16.00	2.136	13.864	--	--	--
Copper	Cents/lb.	44.588	6.761	37.827	44.588	6.125	38.463
Zinc	Cents/lb.	--	---	--	13.50	.5356	12.9644

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist: 10 %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE

Ratio of Concentration 58.82
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	159.77	Oz.	--	159.77	159.77	95	151.78	Oz.	.90901	137.97		
Lead	16.00	%	1.00	15.00	300.0	90	270.00	lbs.	.13864	37.43		
Copper	20.72	%	.75	19.97	399.4	100	399.4	lbs.	.37827	151.08		
TOTAL PAYMENTS FOR METALS										326.48		

DEDUCTIONS	DR.	CR.			
Base Treatment Charge	$ 8.00	$			
Lead Assay Adjustment 50.00 - 16.00 = 34.00 x 10¢	3.40				
Zinc Penalty	--				
Bismuth Penalty	--				
Labor $2.179 - 1.948 = $0.231 x 6	1.39				
Bullion Tax Inc. in R. & D.					
Freight: (8.94 + 3%) + .90) + switch $0.10	10.33				
Special Pb Payment 1.5 x 5 x 16.00		1.20			
TOTAL TO DEDUCT	23.12	1.20	21.92		
NET RETURN PER TON OF CONCENTRATE			304.56		
NET RETURN PER TON OF CRUDE ORE @ 1.70%				5.18	
TOTAL NET RETURN					

ZINC CONCENTRATE

Ratio of Concentration 23.92
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	4.5	Oz.	--	4.5	4.5	80	3.60	Oz.	.90901	3.27		
Lead	-	%	--	-	--	--	--	lbs.	--	----		
Copper	1.08	%	--	1.08	21.6	65	14.04	lbs.	.38463	5.40		
Zinc	51.00	%	--	51.00	1020.0	83.5	851.70	lbs.	.129644	110.42		
TOTAL PAYMENTS FOR METALS										119.09		

DEDUCTIONS	DR.	CR.			
Base Treatment Charge	$ 37.50	$			
Labor Adjustment $2.153 - $2.00 = $0.153 x 15	2.30				
Spelter Price Adjustment 13.50 - 8.00 = 5.50 x $1.25	6.88				
TOTAL BASE CHARGE					
Spelter Tax Included in R. & D.					
Fe + Mn 10.6 + 1.00 = 11.6 - 7.5 = 4.10 x 50¢	2.05				
Freight To Salida (6.30 + 3%) + .90	7.21				
Salida to Amarillo (5.15 + 15% + 3%) + .90	6.78				
TOTAL TO DEDUCT	62.72	--	62.72		
NET RETURN PER TON OF CONCENTRATE			56.37		
NET RETURN PER TON OF CRUDE ORE @ 4.18%				2.36	
TOTAL NET RETURN					$7.54

TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT

Orig cc Correct Approved

DATE: 6/15/56
REF.:
SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE KEYSTONE UNIT
March 1956 Production of Development Ore from 2160 N. Drift.

PROCESS

LOT D-2

METALLURGICAL RESULTS

PRODUCTS	DRY WEIGHTS Tons	DRY WEIGHTS % TOTAL	ASSAYS Au	ASSAYS Ag	ASSAYS PER CENT Pb	ASSAYS PER CENT Cu	ASSAYS PER CENT Zn	ASSAYS PER CENT Fe			RECOVERIES PER CENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn		RATIO OF CONCENTRATION
Heads	194	100.00		1.1	0.7	0.2	1.6				100.0	100.0	100.0	100.0		
Lead Conct.	2.308	1.19		53.15	48.00	7.93	3.60				57.5	81.6	47.2	2.7		84.03
Zinc Conct.	4.921	2.54		2.51	.15	.75	50.00	10.8			5.8	.5	9.5	79.4		39.37
Tailing		96.27		.42	.13	.09	.30				36.7	17.9	43.3	18.1		
											100.0	100.0	100.0	100.2		

FINANCIAL STATEMENT

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	91.143		
LEAD - PER LB.	16.		
COPPER - PER LB.	46.728 dom. ref.		
ZINC - PER LB.	13.5		

NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT.	CRUDE ORE	
BASIS "A"			
Lead Conct.	$203.47	$2.42	
Zinc Conct.	49.67	1.26	
Total		$3.68	
BASIS "B"			
BASIS "C"			

FORM S.L. 500 10-55

RECEIVED AUG 13 1956

March Production 2160 N. Drift

FORM H-22

ORE AND CONCENTRATE LIQUIDATION SHEET

Mill Lot No.
Mine Lot No. D-2
Class

Mine
Unit KEYSTONE
Date 6/15/56

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	91.143	--	91.143	91.143	--	91.143
Lead	Cents/lb.	16.00	2.211	13.789	--	--	--
Copper	Cents/lb.	46.728	6.836	39.892	46.728	6.125	40.603
Zinc	Cents/lb.	--	--	--	13.50	.5665	12.9335

WEIGHTS CRUDE ORE

Wet Weight		lbs.
Moist: 10 %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	53.15	Oz.	--	53.15	53.15	95	50.49	Oz.	.91143	46.02		
Lead	48.00	%	1.00	47.00	940.0	90	846.00	lbs.	.13789	116.65		
Copper	7.93	%	.75	7.18	143.6	100	143.60	lbs.	.39892	57.28		
TOTAL PAYMENTS FOR METALS										219.95		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 8.00	$	
Lead Assay Adjustment 50.00 - 48.00 = 2.00 x 10¢	.20		
Zinc Penalty None			
Bismuth Penalty None			
Labor $2.207 - 1.948 = $0.259 x 6	1.55		
Bullion Tax Included in R. & D.			
Freight: (8.94 + 3%) + .90 + 10¢ switch	10.33		
Special lead payment 1.5 x 5 x 48.00		3.60	
TOTAL TO DEDUCT	20.08	3.60	16.48
NET RETURN PER TON OF CONCENTRATE			203.47
NET RETURN PER TON OF CRUDE ORE @ 1.19%			2.42
TOTAL NET RETURN			

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	2.51	Oz.	--	2.51	2.51	80	2.008	Oz.	.91143	1.83		
Lead	--	%	--	--	--	--	--	lbs.	--	---		
Copper	.75	%	--	.75	15.0	65	9.75	lbs.	.40603	3.96		
Zinc	50.00	%	--	50.00	1000.0	83	830.00	lbs.	.129335	107.35		
TOTAL PAYMENTS FOR METALS										113.14		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 37.50	$	
Labor Adjustment $2.169 - 2.00 = $0.169 x 15	2.54		
Spelter Price Adjustment 13.50 - 8.00 = 5.50 x $1.25	6.88		
TOTAL BASE CHARGE			
Spelter Tax Included in R. & D.			
Fe + Mn = 10.8 + 1.00 = 11.8 - 7.5 = 4.3 x 50¢	2.15		
Freight To Salida (6.30 + 3%) + .90	7.21		
Salida to Armarillo (5.15 x 15% + 6% + 3%) .90	7.19		
TOTAL TO DEDUCT	63.47		63.47
NET RETURN PER TON OF CONCENTRATE			49.67
NET RETURN PER TON OF CRUDE ORE @ 2.54%			1.26
TOTAL NET RETURN			
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT			$3.68

Orig cc Correct Approved

DATE: 6/15/56
REF.:
SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE KEYSTONE UNIT

PROCESS April 1956 Production of Development Ore from 2160 N. Drift

LOT D-3

METALLURGICAL RESULTS

PRODUCTS	DRY WEIGHTS		ASSAYS								RECOVERIES					RATIO OF CONCENTRATION
					PER CENT						PER CENT OF FEED CONTENT THUS REPRESENTED					
	Tons	% TOTAL	Au	Ag	Pb	Cu	Zn	Fe			Ag	Pb	Cu	Zn		
Heads	100.	100.00		2.2	1.4	0.3	2.74									
Lead Conct.	2.51	2.51		61.26	49.00	6.88	4.50				69.9	87.9	57.6	4.1		39.84
Zinc Conct.	4.59	4.59		3.65	.22	.75	51.00	10.6			7.6	0.7	11.5	85.4		21.79
Tailing		92.90		.53	.17	.10	.31				22.4	11.3	31.0	10.5		
											99.9	99.9	100.1	100.0		

FINANCIAL STATEMENT

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	90.875		
LEAD - PER LB.	16.		
COPPER - PER LB.	46.161 dom. ref.		
ZINC - PER LB.	13.5		

NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT.	CRUDE ORE	
BASIS "A"			
Lead Conct.	$204.15	$5.12	
Zinc Conct.	53.50	2.46	
Total		$7.58	
BASIS "B"			
BASIS "C"			

FORM S.L. 500 10-55

FORM H-22

April Production 2160 N. Drift

ORE AND CONCENTRATE LIQUIDATION SHEET

Mill Lot No.
Mine Lot No. D-3
Class
Date 6/15/56

Mine
Unit KEYSTONE

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	90.875	--	90.875	90.875	--	90.875
Lead	Cents/lb.	16.00	2.211	13.789	--	--	--
Copper	Cents/lb.	46.161	6.836	39.325	46.161	6.125	40.036
Zinc	Cents/lb.	--	--	--	13.50	.5665	12.9335

WEIGHTS CRUDE ORE

Wet Weight		lbs.
Moist: 10%		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	61.26	Oz.	--	61.26	61.26	95	58.20	Oz.	.90875	52.89		
Lead	49.00	%	1.00	48.00	960.0	90	864.00	lbs.	.13789	119.14		
Copper	6.88	%	.75	6.13	122.6	100	122.60	lbs.	.39325	48.21		
							TOTAL PAYMENTS FOR METALS			220.24		

DEDUCTIONS		DR.	CR.
Base Treatment Charge		$ 8.00	$
Lead Assay Adjustment	50.00 - 49.00 = 1.00 x 10¢	.10	
Zinc Penalty	None	--	
Bismuth Penalty	None	--	
Labor $2.172 - $1.948 = $0.224 x 6		1.34	
Bullion Tax	Inc. in R. & D.		
Freight:	(8.94 + 3%) + .90 + 10¢ switch	10.33	
Special Pb payment 1.5 x 5 x 49.00			3.68
TOTAL TO DEDUCT		19.77	3.68

NET RETURN PER TON OF CONCENTRATE	16.09	
NET RETURN PER TON OF CRUDE ORE @ 2.51%	204.15	
TOTAL NET RETURN		5.12

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver		Oz.						Oz.				
Lead	3.65	%	--	3.65	3.65	80	2.92	lbs.	.90875	2.65		
Copper	--	%	--	--	--	--	--	lbs.	--	--		
Zinc	.75	%	--	.75	15.0	65	9.75	lbs.	0.40036	3.90		
	51.00		--	51.00	1020.0	83.5	851.70	lbs.	.129335	110.15		
							TOTAL PAYMENTS FOR METALS			116.70		

DEDUCTIONS		DR.	CR.
Base Treatment Charge		$ 37.50	$
Labor Adjustment	$2.158 - 2.00 = $0.158 x 15	2.37	
Spelter Price Adjustment	13.50 - 8.00 = 5.50 x 1.25	6.88	
TOTAL BASE CHARGE			
Spelter Tax	Included in R. & D.		
Fe + Mn	10.6 + 1.00 = 11.6 - 7.5 = 4.10 x 50¢	2.05	
Freight	To Salida (6.30 + 3%) + .90	7.21	
	Salida to Amarillo (5.15 + 15% + 6% + 3%) / .90	7.19	
TOTAL TO DEDUCT		63.20	

NET RETURN PER TON OF CONCENTRATE	63.20	
NET RETURN PER TON OF CRUDE ORE @ 4.59%	53.50	
TOTAL NET RETURN		2.46
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT		$7.58

Orig cc Correct Approved

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

DATE: 6/15/56
REF.:
SUPPORTING DATA:

ORE KEYSTONE UNIT

PROCESS May 1956 Production of Development Ore from 2160 N Drift

METALLURGICAL RESULTS

LOT D-4

PRODUCTS	DRY WEIGHTS Tons	% TOTAL	ASSAYS Au	Ag	PER CENT Pb	Cu	Zn	Fe			RECOVERIES PER CENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn		RATIO OF CONCENTRATION
Heads	779	100.00		3.4	3.3	0.8	5.1				100.0	100.0	100.0	100.0		
Lead Conct.	48.85	6.27		41.75	49.50	9.60	5.00				77.0	94.1	75.2	6.1		15.95
Zinc Conct.	67.90	8.72		2.73	.30	1.10	51.50	10.2			7.0	0.8	12.0	88.1		11.47
Tailing	662.25	85.01		.64	.20	.12	.35				16.0	5.2	12.8	5.8		
											100.0	100.1	100.0	100.0		

FINANCIAL STATEMENT

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	90.750		
LEAD - PER LB.	16.		
COPPER - PER LB.	45.531 dom. refin.		
ZINC - PER LB.	13.5		

NET VALUE CRUDE ORE LESS COSTS			
NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT.	CRUDE ORE	
BASIS "A"			
Lead Conct.	$208.82	$13.09	
Zinc Conct.	56.14	4.90	
Total		$17.99	
BASIS "B"			
BASIS "C"			

FORM S.L. 500 10-55

May Production 2160 N. Drift

Mill Lot No.
Mine Lot No. D-4
Class
Date 6/15/56

ORE AND CONCENTRATE LIQUIDATION SHEET

Mine
Unit KEYSTONE

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.						
Silver	Cents/Oz.	90.750	--	90.750	90.750	--	.90750
Lead	Cents/lb.	16.00	2.211	13.789	--	--	--
Copper	Cents/lb.	45.531	6.836	38.695	45.531	6.125	.39406
Zinc	Cents/lb.	--	--	--	13.50	.5665	.129335

WEIGHTS CRUDE ORE		
Wet Weight		lbs.
Moist: 10%		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	41.75	Oz.	--	41.75	41.75	95	39.66	Oz.	.90750	35.99		
Lead	49.50	%	1.00	48.50	970.0	90	873.00	lbs.	.13789	120.38		
Copper	9.60	%	.75	8.85	177.0	100	177.00	lbs.	.38695	68.49		
							TOTAL PAYMENTS FOR METALS			224.86		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 8.00	$	
Lead Assay Adjustment 50.00 - 49.50 = .50 x 10¢	.05		
Zinc Penalty None	--		
Bismuth Penalty None	--		
Labor $2.176 - 1.948 = $0.228 x 6	1.37		
Bullion Tax Inc. in R & D			
Freight: (8.94 + 3%) + 90 + 10¢ Switch	10.33		
Special Pb payment 1.5 x 5 x 49.50		3.71	
TOTAL TO DEDUCT	19.75	3.71	16.04
NET RETURN PER TON OF CONCENTRATE			208.82
NET RETURN PER TON OF CRUDE ORE @6.27%			13.09
TOTAL NET RETURN			

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold		Oz.						Oz.	$	$	$	$
Silver	2.73	Oz.	--	2.73	2.73	80	2.184	Oz.	.90750	1.98		
Lead	--	%	--	--	--	--	--	lbs.	--	--		
Copper	1.10	%	--	1.10	22.0	65	14.30	lbs.	.39406	5.64		
Zinc	51.50	%	--	51.50	1030.0	83.75	862.63	lbs.	.129335	111.57		
							TOTAL PAYMENTS FOR METALS			119.19		

DEDUCTIONS	DR.	CR.	VALUE
Base Treatment Charge	$ 37.50	$	
Labor Adjustment $2.161 - 2.00 = $0.161 x 15	2.42		
Spelter Price Adjustment 13.50 - 8.00 = 5.50 x 1.25	6.88		
TOTAL BASE CHARGE			
Spelter Tax Inc. in R.&D.			
Fe + Mn = 10.2 + 1.00 = 11.2 - 7.5 = 3.70 x 50¢	1.85		
Freight To Salida (6.30 + 3%) + .90	7.21		
Salida to Amarillo (5.15 + 15% + 6% + 3%) / .90	7.19		
TOTAL TO DEDUCT	63.05		63.05
NET RETURN PER TON OF CONCENTRATE			56.14
NET RETURN PER TON OF CRUDE ORE @ 8.72%			4.90
TOTAL NET RETURN			$17.99

TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT

Orig cc Correct Approved

KEYSTONE UNIT

DOCKET DMEA-3866

Contract Idm-E-903

CALCULATION OF ROYALTY

DMEA
Date Rec'd.
JUL 26 1956
BUREAU OF MINES
Denver, Colorado

LOT D-5 JUNE 1956

Tons	Assay Ag	Assay Pb	Assay Cu	Assay Zn
511	3.0 oz.	2.3%	0.5%	4.4%

	Tons Conct.	Net Smelter Value/ton	Total Net Value	Royalty @ 5%
Pb Conct.	22.433	$196.29	$4,403.37	$220.17
Zn Conct.	38.785	52.51	2,036.60	101.83
Total	61.218		6,439.97	$322.00

Nolan Probst, Supt.

July 17, 1956

June 1956 Production 2160 N. Drift and Raise

ORE AND CONCENTRATE LIQUIDATION SHEET

Mill Lot No.
Mine Lot No. D-5
Class

Mine | Unit Keystone | Date 7-16-56

METAL PRICES

METAL	UNIT	LEAD OR COPPER CONCTS. OR CRUDE Quotation	Deduction	Net	ZINC CONCENTRATES Quotation	Deduction	Net
Gold	Dollars/Oz.	-	-	-			
Silver	Cents/Oz.	90.464	-	90.464	90.464	-	90.464
Lead	Cents/lb.	16.000	2.211	13.789	-	-	-
Copper	Cents/lb.	45.056	6.836	38.220	45.056	6.125	38.931
Zinc	Cents/lb.	-	-	-	13.500	.5665	12.9335

WEIGHTS CRUDE ORE

Wet Weight		lbs.
Moist: %		lbs.
Dry Weight		lbs.
Dry Weight		Tons

LEAD OR COPPER CONCENTRATES OR CRUDE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold	-	Oz.	-	-	-	-	-	Oz.	$ -	$	$	$
Silver	51.82	Oz.	-	51.82	51.82	95	49.229	Oz.	0.90464	44.53		
Lead	48.00	%	1.00	47.00	940.0	90	846.00	lbs.	0.13789	116.65		
Copper	7.49	%	.75	6.74	134.8	100	134.80	lbs.	0.3822	51.52		
TOTAL PAYMENTS FOR METALS										212.70		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 8.00	$
Lead Assay Adjustment 50.00 - 48.00 = 2.0 x 10¢	.20	
Zinc Penalty None	-	
Bismuth Penalty None	-	
Labor $2.195 - $1.948 = $.247 x 6	1.48	
Bullion Tax Inc. in R & D	-	
Freight: (8.94 + 3%) ÷ 90 + 10¢ switching	10.33	
Special Pb payment $0.075 x 48.00		3.60
TOTAL TO DEDUCT	20.01	3.60

TOTAL TO DEDUCT	16.41	
NET RETURN PER TON OF CONCENTRATE	196.29	
NET RETURN PER TON OF CRUDE ORE @ 4.39%		8.62
TOTAL NET RETURN		

ZINC CONCENTRATE

Ratio of Concentration
Mill Ore:

METAL	ASSAY		DEDUCT.	NET ASSAY	EQUIVALENT in LBS. or OZS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE PER TON CONCT.	PER TON CRUDE	TOTAL AMT. FOR LOT
Gold	-	Oz.	-	-	-	-	-	Oz.	$ -	$ -	$	$
Silver	2.60	Oz.	-	2.60	2.60	80	2.08	Oz.	0.90464	1.88		
Lead	-	%	-	-	-	-	-	lbs.	-	-		
Copper	.75	%	-	.75	15.0	65	9.75	lbs.	0.38931	3.80		
Zinc	51.00	%	-	51.00	1020.0	83.5	851.70	lbs.	0.129335	110.15		
TOTAL PAYMENTS FOR METALS										115.83		

DEDUCTIONS	DR.	CR.
Base Treatment Charge	$ 37.50	$
Labor Adjustment $2.166-$2.00 = $0.166 x 15	2.49	
Spelter Price Adjustment $13.50-8.00 = $5.50 x 1.25	6.88	
TOTAL BASE CHARGE		
Spelter Tax Inc. in R & D		
Fe + Mn 10.6 + 1.00 - 7.5 = 4.10 x 50¢	2.05	
Freight To Salida (6.30 + 3%) + .90	7.21	
Salida to Amarillo (5.15+15%+6%+3%) / .90	7.19	
TOTAL TO DEDUCT	63.32	

TOTAL TO DEDUCT	63.32	
NET RETURN PER TON OF CONCENTRATE	52.51	
NET RETURN PER TON OF CRUDE ORE @ 7.59%		3.99
TOTAL NET RETURN		
TOTAL RETURN PER TON CRUDE ORE FROM ALL CONCENTRATES AND FOR LOT		12.61

Orig | cc | E903 | Correct | Approved

DATE: July 16, 1956
REF.:
SUPPORTING DATA:

AMERICAN SMELTING AND REFINING COMPANY

METALLURGICAL AND FINANCIAL SUMMARY

ORE Keystone Unit
~~PROCESS~~ June 1956 Production of Development Ore from 2160 N Drift & Raise

METALLURGICAL RESULTS – BASED ON LOT D-5 TONS

PRODUCTS	DRY WEIGHTS Tons	% TOTAL	ASSAYS Au	Ag	PER CENT Pb	Cu	Zn	Fe			RECOVERIES PERCENT OF FEED CONTENT THUS REPRESENTED Ag	Pb	Cu	Zn	RATIO OF CONCEN-TRATION
Feed	511	100.00		3.00	2.30	0.50	4.40				100	100	100	100	
Lead Concts.	22.433	4.39		51.82	48.00	7.49	5.00				75.8	91.6	65.8	5.0	22.78:1
Zinc Concts.	38.785	7.59		2.60	.25	.75	51.00	10.6			6.6	.8	11.4	88.0	13.18:1
Tails		88.02		.60	.20	.13	.35				17.6	7.6	22.9	7.0	
Total											100.0	100.0	100.1	100.0	

FINANCIAL STATEMENT U. S. CY.

METAL PRICES	PRICE BASIS "A"	"B"	"C"
GOLD - PER TROY OZ.			
SILVER - PER TROY OZ.	90.464		
LEAD - PER LB.	16.		
COPPER - PER LB.	45.056	Dom. ref.	
ZINC - PER LB.	13.5		

NET VALUE CRUDE ORE LESS COSTS

NET SMELTER VALUE			
COSTS			
COSTS			
NSV LESS ABOVE COST			

PRODUCTS	NET SMELTER VALUE PER TON OF CONCT	CRUDE ORE	
BASIS "A"			
Lead Conct.	$196.29	$8.62	
Zinc Conct.	52.51	3.99	
Total		$12.61	
BASIS "B"			
BASIS "C"			

FORM S. L. 1M 12-23-47

AUG 13 1956

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

RECEIVED
JUL 12 1956

224 New Customhouse
Denver 2, Colorado

Date: July 10, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty payments, Docket DMEA 3866 (Lead-Zinc-Copper), Contract Idm-E903, American Smelting & Refining Company (Keystone mine), Gunnison County, Colorado

Period: June, 1956

During the above month the following royalty payments were received for ore or concentrates shipped from the subject property:

Date	Lot No.	Dry Tons	Royalty Due	Royalty Paid	Bonus Roy. Due	Bonus Roy. Pd.

Check in the amount of $752.10 received from American Smelting and Refining Company in payment of royalty due on Lots No. D-1, D-2, D-3 and D-4. Corrected settlement sheets for these shipments have been requested.

Totals:

Past Due Royalties Collected	None
Total Dry Tons (Ore or Cons.) Shipped to Date	Not determined
Expiration Date of Royalty Repayment	" "
Amount of Government Participation	" "
Total Royalty Payments to Date	$752.10
Percent of Loan Repayment	-- --

W. M. Traver

W. M. Traver

vj
cc Royalty File E 903 w/Settlement Sheets
Monthly Royalty Payment File
J. F. Shaw (2)
Chron.