APR 9 1951

April 4, 1951

Memorandum

To: Executive Secretary, D. M. A.

From: Lead-Zinc Branch, D. M. A. Re: Docket DMA-597

Subject: Application of
Harreld and Martin Mining Company
901 Main Street
Galena, Kansas

Attached is the report on the Harreld and Martin lease in Cherokee County, Kansas, submitted by the Field Team of Region VI recommending that the application be denied. The Lead-Zinc Branch, Defense Minerals Administration concurs in the recommendation of the Field Team.

Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch

Attachment

EJLyons:emp
G 4/4/51

Copies to: 2 copies to Mr. David Gallagher
Region VI
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
C. O. Mattendorf
Files

Approved:

Tom Lyon

Tom Lyon, Director, Supply Division

April 4, 1951

Memorandum

To: Executive Secretary, D. M. A.

From: Lead-Zinc Branch, D. M. A. Re: Docket DMA-597

Subject: Application of
Harrold and Martin Mining Company
901 Main Street
Galena, Kansas

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Files

Approved:
Tom Lyon

Tom Lyon, Director, Supply Division

APR 9 1951

April 4, 1951

Re: Docket DMA-597

Mr. A. G. Harrold
901 Main Street
Galena, Kansas

Dear Mr. Harrold:

The report on your lease located in Sec. 15, T. 34 S. R. 25 E., Cherokee County, Kansas, based on an examination made by geologists and engineers employed by the Defense Minerals Administration, has been received by the Lead-Zinc Branch, Defense Minerals Administration.

Study of this report indicates that there are not sufficient reserves on your property to warrant a loan or procurement contract with the Government.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

EJLyons:emp
G 4/4/51
Copies to: 2 copies to David Gallagher
Region VI
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
C. O. Mittendorf
Files

April 4, 1951

Re: Docket DMA-597

Mr. A. G. Harrold
901 Main Street
Galena, Kansas

Dear Mr. Harrold:

The report on your lease located in Sec. 15, T. 34 S. R. 25 E., Cherokee County, Kansas, based on an examination made by geologists and engineers employed by the Defense Minerals Administration, has been received by the Lead-Zinc Branch, Defense Minerals Administration.

Study of this report indicates that there are not sufficient reserves on your property to warrant a loan or procurement contract with the Government.

Very truly yours,

Tom Lyon, Director
Supply Division

EJLyons:emp
G 4/4/51
Copies to: 2 copies to David Gallagher
Region VI
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
C. O. Mittendorf
Files

Joplin, Mo.

March 26, 1951

Memorandum

To: Lead-Zinc Branch, Defense Minerals Administration.

From: David Gallagher,
Executive Officer of the Field Team,
Region VI.

Re: Docket DMA-597

Subject: Application of
Harrold and Martin Mining Company,
903 Main Street,
Galena, Kansas

Commodity: Zinc, lead.

Submitted herewith is our report by Perry K. Muribut on Docket DMA-597.

You will note that the presently ascertainable ore reserve falls far short of justifying the requested financial assistance. The geologic setting indicates little likelihood that further efforts would lead to discovery of an additional ore reserve adequate to support even the costs of the exploration itself.

David Gallagher

DEFENSE MINERALS ADMINISTRATION

FIELD TEAM, REGION 6
Joplin, Mo.

David Gallagher, U.S.G.S.
L. T. McElvenny, U.S.B.M.

Report on Docket DMA-597

Open-cut zinc mine of the Harrold and Martin Mining Company

by Perry K. Harlbut
Geologist, U.S.G.S.

March 26, 1951

Re: Application of Harreld and Martin Mining Company,
901 Main Street,
Galena, Kansas.

An examination has been made of the Harreld and Martin lease, comprising a portion of the NE¼NW¼ and NW¼NE¼, sec. 15, T. 34 S., R. 25 E., Cherokee County, Kansas. Maps and drilling information relative to this lease were supplied by the U. S. Bureau of Mines office in Joplin, Missouri. Additional information concerning mining and ore shipments was obtained directly from Mr. A. G. Harreld, and confirmed by checking the records in the office of the Eagle-Picher Mining & Smelting Company at Cardin, Oklahoma.

The orebody on the Harreld and Martin lease is in "M" bed, which is an important ore-producing bed in the Tri-State mining district. "M" bed lies in the upper portion of the Keokuk formation and is Mississippian in age. Where large orebodies occur in "M" bed, the bed has been altered, by replacement, to jasperoid and dolomite. Under these conditions it has also been thinned from a maximum thickness of 70 feet to a minimum thickness of approximately 10 feet, depending upon the degree of alteration. In the locality of the Harreld and Martin lease, "M" bed is composed of limestone, does not show alteration to jasperoid or dolomite, and is approximately 65 feet in thickness. The geologic setting is therefore interpreted as unfavorable for the occurrence of substantial ore reserves.

Drilling on the Harreld and Martin lease consists of 10 holes drilled by Harreld and Martin, for which there are records, and 3 old holes for which no records are available. The holes drilled by Harreld and Martin are closely spaced, and are less than 50 feet in depth. They indicate the presence of a small body of ore in "M" bed. This shallow drilling has, therefore, prospected a very limited area of the lease, and only the "M" bed horizon.

Harreld and Martin were mining, somewhat intermittently, by open-pitting. From this pit they have made two ore shipments to the Eagle-Picher Central Mill at Cardin, Oklahoma. The first shipment was 300 tons in September, 1949, which assayed 7.87 percent Zn metal. The second shipment was 400 tons in July, 1950, which assayed 4.69 percent Zn metal. No production has been attempted since their last ore shipment was made in July, 1950.

It is indicated by calculations from existing drilling and mining information that 2,472 rock tons are still available for mining.

This ore has a calculated grade of 3.86 percent Zn metal, and will therefore produce about 97 tons of Zn metal.

The applicants are asking for $35,000, yet the present reserve of ore calculated on the information now available has a gross value in the ground of less than $20,000. The geologic conditions are not favorable for the occurrence of substantial quantities of additional ore so that Government participation in further exploration is not recommended.

Perry K. Rulbut

David Gallagher

L. T. McKiveney

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

March 6, 1951

Memorandum

To: Executive Officer of the Field Team, Region VI
Through Operating Committee and
Director, Supply Division

From: Lead-Zinc Branch, D. M. A. Re: Docket DMA-597

Subject: Application of
Harreld & Martin Mining Company
901 Main Street,
Galena, Kansas

Commodity: Zinc, lead

The application for Government assistance submitted by Mr. A. G. Harreld in behalf of the Harreld & Martin Mining Company of Galena, Kansas, has been reviewed by the Lead-Zinc Branch, Defense Minerals Administration.

The application is for a loan of $35,000.00 to be used for the purchase of mining equipment ($25,000.00) and as working capital ($10,000.00).

The company has drilled 10 holes. Seven of these, according to the applicant, showed good zinc ore from a depth of 13 feet downward an unstated distance. A map and information on these holes are in the U. S. Bureau of Mines office in Joplin, Missouri.

The company proposes to mine the deposit by open pitting.

The Lead-Zinc Branch, Defense Minerals Administration, recommends that a field examination of this property be made to determine:

(1) Whether a purchase contract could be granted to the company, or

(2) Whether further drilling is necessary and an exploration loan should be considered.

It is suggested that the form "Outline for Report and Recommendation of Commodity Committee on Application for Government Assistance" be followed in submitting the field report.

Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch
Defense Minerals Administration

Approved:
DMA Operating Committee

Chairman

L. B. Moon

Olaf N. Rove

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

EJLy:no:emp
Copies to: Chief Lead-Zinc Br.
UCCO McNulty
L. S. Moon
R. H. Fote
Hurobel
Hittendorf
2 copies to Executive Officer
Regional Field Team Region VI

March 6, 1951

Memorandum Files

To: Executive Officer of the Field Team, Region VI
Through Operating Committee and
Director, Supply Division

From: Lead-Zinc Branch, D. M. A. Re: Docket DMA-597

Subject: Application of
Farrell & Martin Mining Company
901 Main Street,
Galena, Kansas

Commodity: Zinc, lead

The application for Government assistance submitted by Mr. A. G. Farrell on behalf of the Farrell & Martin Mining Company of Galena, Kansas, has been reviewed by the Lead-Zinc Branch, Defense Minerals Administration.

The application is for a loan of $55,000.00 to be used for the purchase of mining equipment ($45,000.00) and as working capital ($10,000.00).

The company has drilled 10 holes. Seven of these, according to the applicant, showed good zinc ore from a depth of 15 feet downward an unstated distance. A map and information on these holes are in the U. S. Bureau of Mines office in Joplin, Missouri.

The company proposes to mine the deposit by open pitting.

The Lead-Zinc Branch, Defense Minerals Administration, recommends that a field examination of this property be made to determine:

(1) Whether a purchase contract could be granted to the company, or

(2) Whether further drilling is necessary and an exploration loan should be considered.

It is suggested that the form "Outline for Report and Recommendation of Commodity Committee on Application for Government Assistance" be followed in submitting the field report.

Approved:
DMA Operating Committee

Chairman

Otto McNulty, Chief
Lead-Zinc Branch
Defense Minerals Administration

Chief R. Fote

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Copies to: Chief Lead-Zinc Br.
USGS Rom
L. H. Koon
R. H. Hots
Strobel
Hittendorf
2 copies to Executive Officer
Regional Field Team Region VI
Memorandum Files

March 6, 1951

To: Executive Officer of the Field Team, Region VI
Through Operating Committee and
Director, Supply Division

From: Lead-Zinc Branch, D. M. A. Re: Docket MM-537

Subject: Application of
Herrold & Martin Mining Company
201 Main Street,
Galena, Kansas

Commodity: Zinc, lead

The application for Government assistance submitted by Mr. A. C. Herrold in behalf of the Herrold & Martin Mining Company of Galena, Kansas, has been reviewed by the Lead-Zinc Branch, Defense Minerals Administration.

The application is for a loan of $35,000.00 to be used for the purchase of mining equipment ($25,000.00) and as working capital ($10,000.00).

The company has drilled 10 holes. Seven of these, according to the applicant, showed good zinc ore from a depth of 15 feet outward an unstated distance. A map and information on these holes are in the U. S. Bureau of Mines office in Joplin, Missouri.

The company proposes to mine the deposit by open pitting.

The Lead-Zinc Branch, Defense Minerals Administration, recommends that a field examination of this property be made to determine:

(1) Whether a purchase contract could be granted to the company, or

(2) Whether further drilling is necessary and an exploration loan should be considered.

It is suggested that the form "Outline for Report and Recommendation of Commodity Committee on Application for Government Assistance" be followed in submitting the field report.

Approved:
DMA Operating Committee

Chairman

Otto Herzog, Chief
Lead-Zinc Branch
Defense Minerals Administration

Chief R. Dove

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

March 6, 1951

Re: Docket DMA-537

Mr. A. G. Herreld
901 Main Street
Galena, Kansas

Dear Mr. Herreld:

Your application for Government assistance submitted by you in behalf of the Herreld & Martin Mining Company has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration. The application has been sent to Mr. David Gallagher, Executive Officer of the Field Team, P. O. Box 451, Joplin, Missouri, for further information and advice.

Very truly yours,

/s Tom Lyon

Tom Lyon, Director
Supply Division

BJLyons:emp
G-3/5/51

Copies to: Chief, Lead-Zinc Br.
USGS - McKnight
L. B. Moon
R. H. Mote
2 copies to Executive Officer
Regional Field Team, Region VI
Strobel
Hittendorf
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

March 6, 1951

Re: Docket DMA-397

Mr. A. G. Farrell
901 Main Street
Galena, Kansas

Dear Mr. Farrell:

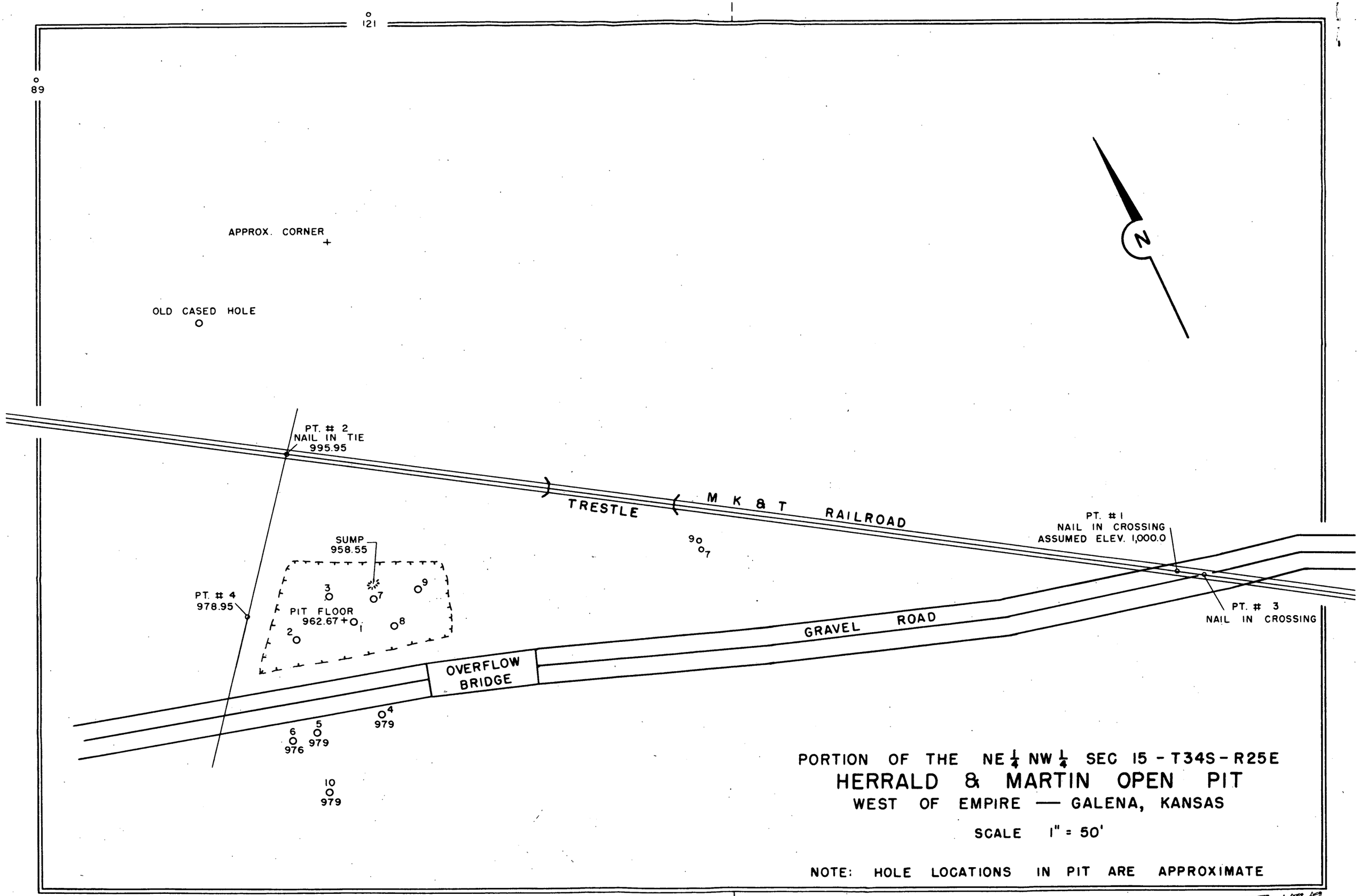
Your application for Government assistance submitted by you in behalf of the Farrell & Martin Mining Company has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration. The application has been sent to Mr. David Gallagher, Executive Officer of the Field Team, P. O. Box 431, Joplin, Missouri, for further information and advice.

Very truly yours,

/s/ Ron Lyon

Ron Lyon, Director
Supply Division

RDLyon:s:eng
6-3/3/51
Copies to: Chief, Lead-Zinc Br.
USGS - McKnight
L. D. Koon
R. H. Bate
2 copies to Executive Officer
Regional Field Team, Region VI
Strobel
Mittendorf
Files


121
89
N
APPROX. CORNER
OLD CASED HOLE
PT. # 2
NAIL IN TIE
995.95
TRESTLE
M K & T RAILROAD
PT. # 1
NAIL IN CROSSING
ASSUMED ELEV. 1,000.0
SUMP
958.55
PT. # 4
978.95
PIT FLOOR
962.67
GRAVEL ROAD
PT. # 3
NAIL IN CROSSING
OVERFLOW BRIDGE
979
976
979
979
979
PORTION OF THE NE 1/4 NW 1/4 SEC 15 - T34S - R25E
HERRALD & MARTIN OPEN PIT
WEST OF EMPIRE — GALENA, KANSAS
SCALE 1" = 50'
NOTE: HOLE LOCATIONS IN PIT ARE APPROXIMATE

T-177

Mr Munds
DMA

① ZnS Elev. = 979

1 – 3.27	Cut	3 27
2 – 7.00		14 00
3 – 9.18		27 54
2 – 12.27		24 54
3 – 9.60		28 80
3 – 7.50		22 50
2 – 9.12		18 24
3 – 5.67		17 01
3 – 8.16		24 48
4 – 13.05		52 20
2½ – 10.17		25 42
2½ – 8.52		21 30
2½ – 10.67		26 67
2½ – 6.96		17 40
2½ – 4.47		11 17
38.50		334.54
		17.27
		317.27

8.69 ZnS = 5.83 Zn

38.5 feet

not cut = 35.5' of 8.93 = 5.98

② Elev.

1 – 2.05		2 05
1 – 2.85		2 85
1 – 3.06	Cut	3 06
2 – 3.27		6 54
2 – 3.93		7 86
2½ – 2.10		5 25
9.50		28.06
		13.11

2.95 ZnS = 1.97 Zn

9.5 feet

not cut = 4.5' of 2.80 = 1.88

③ 0-cut

5 – 5.49	
2½ – 3.30	
2½ – 1.44	
10.00	

3.93 ZnS = 2.63 Zn

10 feet

not cut = 10' of 3.93 ZnS = 2.63 Zn

not cut (5) = 10 feet of 2% ZnS (est.) = 1.34 Zn

not cut (7) = 10 " " 1.50 ZnS (est.) = 1% Zn

HARRELD & MARTIN

Before any mining

1	2	3	4	5	6	7	8	9	10	11	12
Block	Hole No	Ht	% Zn	Ht x Zn	Av. % Zn	Av Ht	Area	Cu Ft.	Rk Tons	-10%	Tons Zn
	1	38.5	5.83	224.45							
	2	9.5	1.97	18.71							
	3	10.0	2.63	26.30							
	5	10.0	1.34	13.40							
	7	10.0	1.00	10.00							
		78.0		292.86	3.75	15.6	5250	81,900	6552	X	245

Old calculations for 20 months

as of 3-20-51

	1	35.5	5.98	212.40							
	2	4.5	1.88	8.46							
	3	10.0	2.63	26.30							
	5	10.0	1.34	13.40							
	7	10.0	1.00	10.00							
		70.0		270.56	3.86		5250	81,900	7247.2	X	97
						pit =	3000	-51,000			
								30,900			

DEFENSE MINERALS ADMINISTRATION

FIELD TEAM, REGION 6
Joplin, Mo.

David Gallagher, U.S.G.S.
L. T. McElvenny, U.S.B.M.

Report on Docket DMA-000

Open-cut zinc mine of the Harreld and Martin Mining Company

by Perry K. Hurlbut
Geologist, U.S.G.S.

March 26, 1951

Re:- Application of Hannold & Martin mining Company, 901 main Street, Galena, Kansas

An examination has been made of the Hannold and Martin lease, [redacted] comprising a portion of the NE¼ NW¼ and NW¼ NE¼ Sec. 15, T. 34 S., R. 25 E., Cherokee Co., Kansas. Maps and drilling information relative to the lease were supplied by the U. S. Bureau of Mines office in Joplin, Mo. Additional information concerning mining and ore shipments was obtained directly from Mr. A. G. Hannold, ~~one of the applicants~~, and confirmed by checking TD records in the Eagle-Picher M. & S. Co. ~~office at~~ Cardin, Oklahoma.

The orebody on the HOM lease is in "M" Bed, which is an important ore producing bed in the Tri-State mining district. "M" Bed lies in the upper portion of the Keokuk formation and is Mississippian in age. Where large orebodies occur in "M" Bed the bed has been altered, by replacement, to jasperoid and dolomite. Under these conditions it has also been thinned from a maximum thickness of 70 feet to a minimum thickness of approximately 10 feet, depending upon the degree of alteration. In the locality of the HOM lease, "M" Bed is composed of limestone, does not show alteration to jasperoid or dolomite, and is approximately 65 feet in thickness. The geologic setting is therefore interpreted as unfavorable for the occurrence of substantial ore reserves.

Drilling on the NCM lease consists of 10 holes drilled by N. & M, for which there are records, and 3 old holes for which no records are available. The holes drilled by N. & M are closely spaced, and are less than 50 feet in depth. They indicate the presence of a small horizon of ore in "M" Bed. This shallow drilling has, therefore, prospected a very limited area of the lease, and only the "M" Bed horizon.

N. & M were mining by open-pitting. From this pit they have made two ore shipments to the Eagle-Picher Central Mill at Cardin, Oklahoma. The first shipment was 300 tons in September, 1949, which assayed 7.87 percent Zn metal. The second shipment was 400 tons in July, 1950, which assayed 4.69 percent Zn metal. It is indicated by calculations from existing drilling and mining information that 3472 net tons are still available for mining. This ore has a calculated grade of 3.46 percent Zn metal, and will when produced about 97 tons of Zn metal. No production has been attempted since their last ore shipment was made in July, 1950.

It is therefore concluded that further development of this property is not feasible.

~~166~~ 167 $19,200

~~$~~ 12/200000

yet the present reserve of ore calculated on the information now available has a gross value in the ground of less than $20,000. The applicants are asking for $35,000. The geologic conditions are not favorable for the occurrence of substantial quantities of additional ore so that Government participation in further exploration is not recommended.

STATEMENT FOR HARRELD AND MARTIN
OCTOBER, 1949
ACCOUNT INSUFFICIENT LEAD IN CRUDE ORE FOR MILL LOSSES

Dry Weight Crude Ore.....	513,806 lbs.
Mineral Content per head samples.....	7.01 Zn=11.72 CONC .155 Pb= [redacted]
Concentrates Produced.....	56,711 lbs. ZnS @ 59.45 grade
Losses in Harreld and Martin Tailings.....	951 lbs PbS .1558 Pb
Losses in Zinc Concentrates.....	1,323 lbs PbS 1.7489 Pb
Lead losses in excess of ore content.....	1,214 lbs PbS @ 75.076 Grade

Value @ 154.19 per ton.....$93.60 P6

Ore at this time was $54.60 Per ton

RECEIVED
MINERALS TECHNOLOGY DIVISION
BUREAU OF MINES 1951

JOPLIN, MO.
BUREAU OF MINES
JOPLIN, MO.

(FOR GOVERNMENT USE ONLY)

DEFENSE MINERALS ADMINISTRATION

DATA GATHERED BY INTERVIEW WITH MR. HARRELD ON MARCH 14, 1951

DOCKET NO. _____

COMMODITY ZINC

APPLICANTS:

A.G. HARRELD, 901 MAIN ST., GALENA, KANSAS - TEL: 536-J

W. J. MARTIN, MARTIN STATION, GALENA, KANSAS - TEL: 89

RELATIONSHIP: CO-LEASEES, 50 PERCENT EACH

EXPERIENCE: BOTH APPLICANTS HAVE OVER 20 YEARS EXPERIENCE IN MINING, PROSPECTING, METALLURGY OF LEAD ORES, MR. HARRELD IS IN THE LEAD SALVAGE AND TRUCKING BUSINESS. MR. MARTIN OPERATES A SERVICE STATION.

APPLICATION:

INCLUDED AS ATTACHMENTS TO APPLICATION FORM NSRB-146 WERE DRILL HOLE LOGS, ASSAY REPORTS, ORE SETTLEMENT SHEETS (MILL) AND OTHER PERTINENT DATA ACCORDING TO STATEMENT BY MR. HARRELD

GEOLOGICAL OPINION:

NO GEOLOGICAL REPORT EXIST ON THIS PROPERTY. MR HARRELD AND OTHERS HOPE THAT IT MAY PROVE TO BE AN EXTENSION OF THE RICH EAST EMPIRE OREBODY, WHICH LIES APPROX. ONE-HALF MILE EAST. IT IS A NEW DISCOVERY IN HOPE

HISTORY:

(a) DISCOVERY: THE ORE WAS DISCOVERED WHEN

6.5

17.5 / 1150

1050

1500

875

1200 / 115

.60

6.6

99

14

6.6

84

9.5

15

210

115

6.6

90

90

998

9.6

6.6

576

576

32

924

350

60

54.7%

210 / 60

115

.54

92

210 / 115.00

105

1090

1500

14

54.7 3

1/2

Willie

9.6

6.6

5.76

EXCAVATING FOR THE ROAD OVERFLOW BRIDGE SEVERAL YEARS AGO. MR. HARRELD STRIPPED OF THE OVERBURDEN IN 1949, AFTER DRILLING TEN HOLES.

(d) MINING: TWO ORE SHIPMENTS HAVE BEEN MADE TO THE CENTRAL MILL. THE FIRST WAS 300 WET TONS IN SEPTEMBER, 1949 AND ASSAYED 11.72 PERCENT ZINC SULPHIDE. THE SECOND SHIPMENT OF 460 WET TONS WAS IN JULY, 1950 AND ASSAYED 7.00 PERCENT ZINC SULPHIDE. THE ORE WAS BROKEN BY DRILLING AND BLASTING AND LOADED BY DRAGLINE INTO TRUCKS THAT DUMPED INTO THE RAILROAD CARS.

(e) REASON FOR BEING OUT OF OPERATION: WHEN THE HARRELD-MARTIN OPERATION BEGAN IN 1949 THE PRICE OF CONCENTRATES WAS APPROX. 99 DOLLARS A TON, AND IN JANUARY 1950 THE PRICE DROPPED TO 63 DOLLARS A TON. IN EARLY 1951. MR. HARRELD STATED THAT THE PRICE DROP WAS THE REASON FOR CLOSING DOWN OPERATIONS AFTER THE LAST SHIPMENT. ~~THIS DISCREPANCY OF DATES SHOULD BE CHECKED.~~

LEASE

MR. HARRELD AND MR. MARTIN HAVE A LEASE ON THE 80 ACRES — NE¼ NW¼ AND NW¼ NE¼ OF SECTION 15 OF TOWNSHIP 34 SOUTH, RANGE 25 EAST, CHEROKEE

IN ORDER TO HOLD LEASE WHICH NOT MINING, THE LESSEES HAVE BEEN FORCED TO SUB-LEASE THE MINING RIGHTS TO A MINING CORPORATION SINCE FILING FORM NSRB-146. THIS TEMPORARY ARRANGEMENT WILL EXPIRE IN JUNE, LEAVING HARRELD + MARTIN FREE AGAIN TO EXERCISE THEIR LEASE.

INSERT HERE

BUREAU OF MINES
JOPLIN, MO

COUNTY, KANSAS. IF MINING IS PRACTICED THE LEASE IS FOR TEN YEARS WITH A 7½ PERCENT OF NET MILL SETTLEMENT AS ROYALTY TO THE LAND OWNER.

THE COUNTY ROAD FOREMAN HAS INDICATED TO MR. HARRELD THAT BY DEPOSITING A BOND OF 1000 DOLLARS WITH THE COUNTY TO GUARNTEE REFILLING AND PLACING THE ROAD BACK INTO THE POSITION SHOWN ON PLATE-3, THAT IT WOULD BE PERMISSIBLE TO DETOUR THE ROAD TEMPORARILY UNTIL THE AREA WAS STRIPPED AND MINED. THE M.K.&T. RAILROAD GRADE (PLATE-3), OF COURSE COULD NOT BE MOVED, HOWEVER THE LEASE WOULD ALLOW UNDER GROUND MINING OF ANY ORE THAT MAY EXTEND UNDER THE GRADE.

DEVELOPMENT

INSERT 3RD TOPIC

THE AREA NOW STRIPPED (PLATE-3) IS APPROX. 5000 SQUARE FEET AND THE PIT FLOOR IS FROM 18 TO 25 FEET BELOW THE GROUND LEVEL. THE LOGS OF THE TEN CHURN DRILL HOLES ARE ATTACHED. A SHAFT BY DRILL HOLES No. 5 AND No. 6 HAS BEEN SUNK TO A DEPTH OF 25 FEET. BREAKING ORE ON THE DUMP SUBSTANTIATES A STATEMENT BY MR. HARRELD THAT THE LAST 8 FEET OF THE SHAFT IS IN GOOD ZINC ORE.

3 1.00

600,00 13
513,806
86,196

6.66 315
20 1.5
13.330
20

5 60
12

12

5
20 113
3

3 20

15

513,806
256,9

6.66 2000
198 3
66

257 93.6
271
1650

.36

2 1.66

9 60
54
6

.85 133
85
483
55

RECEIVED

MAR 1 1951

BUREAU OF MINES
JOPLIN, MO.

MILLING

THE MILLING CHARGE IS BASED AS 30 PERCENT OF THE VALUE OF ZINC IN THE ORE WITH A MAXIMUM OF $1.45 A DRY TON A EAGLE PICHER'S CENTRAL MILL. THIS ORE IS LESS THAN 0.16 PERCENT LEAD, THEREFORE THE SHIPPER IS PENALIZED IN ACCOUNTING FOR INSUFFICIENT LEAD IN THE CRUDE ORE FOR LEAD LOSSES IN THE MILL TAILS AND ZINC CONCENTRATES. THIS PENALTY IS APPROXIMATELY 35 CENTS A DRY TON. HOWEVER, BECAUSE OF THE FREE-MILLING ~~ASPECTS~~ QUALITIES OF THE ORE, A PREMIUM PRICE OF TWO DOLLARS A TON OF CONCENTRATE IS PAID BY THE MILL, WHICH WOULD OFFSET THE LEAD PENALTY.

MINING

MR. HIMMELD ESTIMATES THAT IT WILL COST
* ABOUT $1.40 A TON TO STRIP THE OVERBURDEN, ~~BORE AND BLAST~~ DRILL AND BREAK THE ORE, LOAD THE ORE IN TRUCKS AND DUMP INTO THE RAILROAD CARS. HE ESTIMATES THAT HE CAN PRODUCE 156 TONS OF ORE A DAY (20 TONS OF ZINC CONCENTRATE) BY OPERATING
* ON TWO SHIFTS, AND EMPLOYING A TOTAL OF 16 MEN. HE THINKS THAT THE ~~OPERATION~~ PRODUCTION CAN BE UNDER WAY
* IN TEN DAYS.

THE WASTE-ROCK OVERBURDEN CAN BE REMOVED BY EXCAVATING EQUIPMENT AS IT IS COMPOSED OF BROKEN

BOULDERS AND CLAY. THIS WILL PROBABLY BE FROM 12 TO 15 FEET IN THICKNESS.

THE ORE WILL PROBABLY OCCUR FROM 13 FEET ~~BELOW THE SURFACE~~ TO 40 FEET BELOW THE SURFACE.

TRANSPORTATION

THE ESTIMATE OF COST OF TRUCKING THE ORE FROM THE PIT TO THE RAILROAD CAR IS 20 ~~APPROXIMATELY~~ CENTS A TON. THE RAIL RATE TO THE CENTRAL MILL, INCLUDING 7 CENTS A TON FOR UNLOADING, IS 37 CENTS A TON.

POWER & EQUIPMENT

MR. HARRED DOES NOT PLAN TO BRING IN ELECTRIC POWER. HE PLANS TO RUN ON GASOLINE, WHICH COSTS APPROXIMATELY 16 CENTS PER GALLON DELIVERED AT THE MINE.

SOME EQUIPMENT IS TO BE PURCHASED AND SOME WILL BE RENTED. THEY PLAN TO BUY A 4-INCH POMONA PUMP, A USED ONE-HALF YARD GASOLINE POWERED SHOVEL, TRUCKS, AND MISC. ITEMS. MR. HARRED SAID THAT THIS EQUIPMENT IS AVAILABLE LOCALLY AS WELL AS A COMPRESSOR, DRILL, AND ACCESSORIES WHICH HE PLANS TO RENT.

RECEIVED
MINERALS TECHNOLOGY
DIVISION

MAR 1 1951

BUREAU OF MINES
JOPLIN, MO.

WATER

WATER NOW FILLS THE PIT AND SHAFT. A FLOW OF APPROXIMATELY 1000 GALLONS AN HOUR

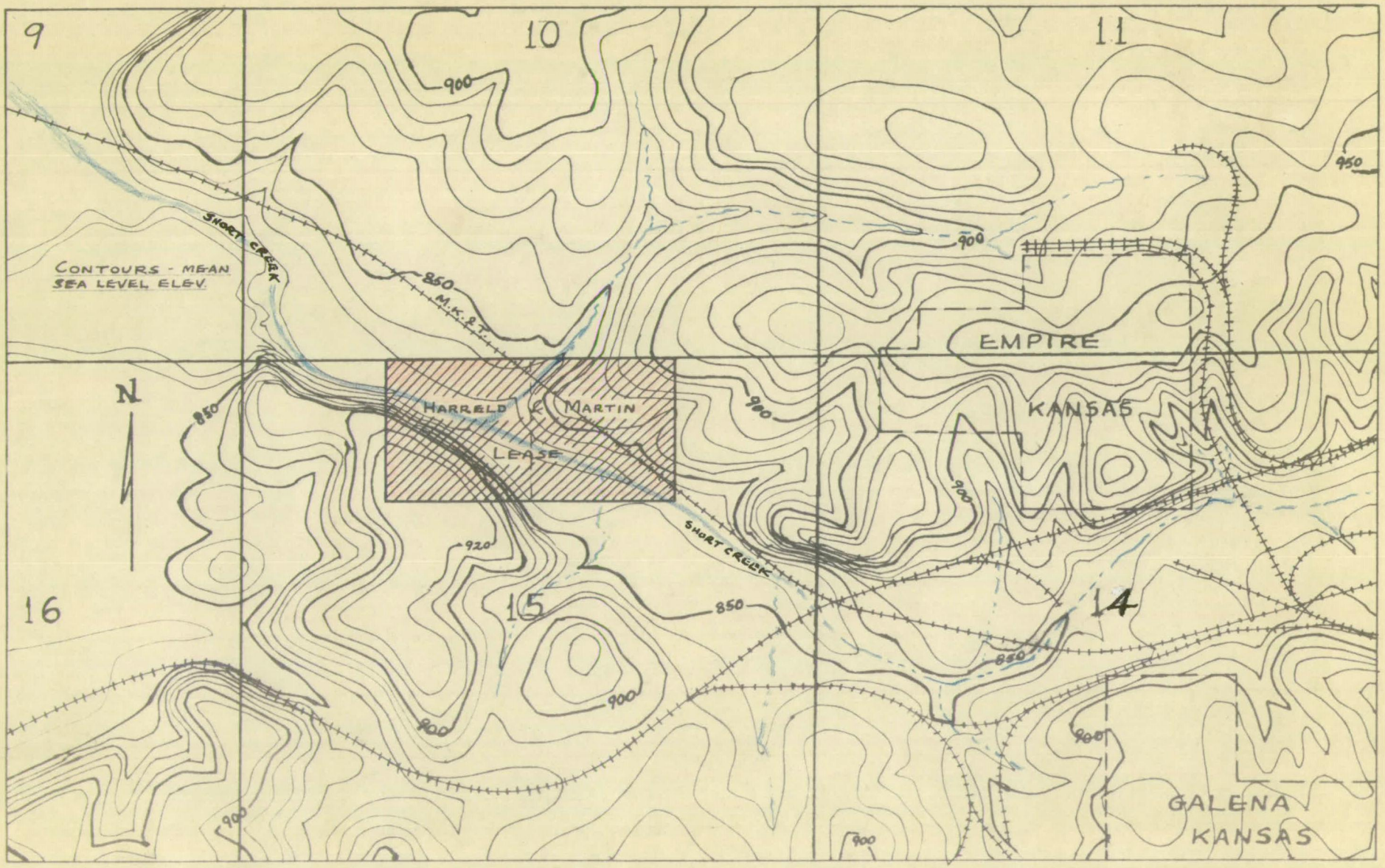
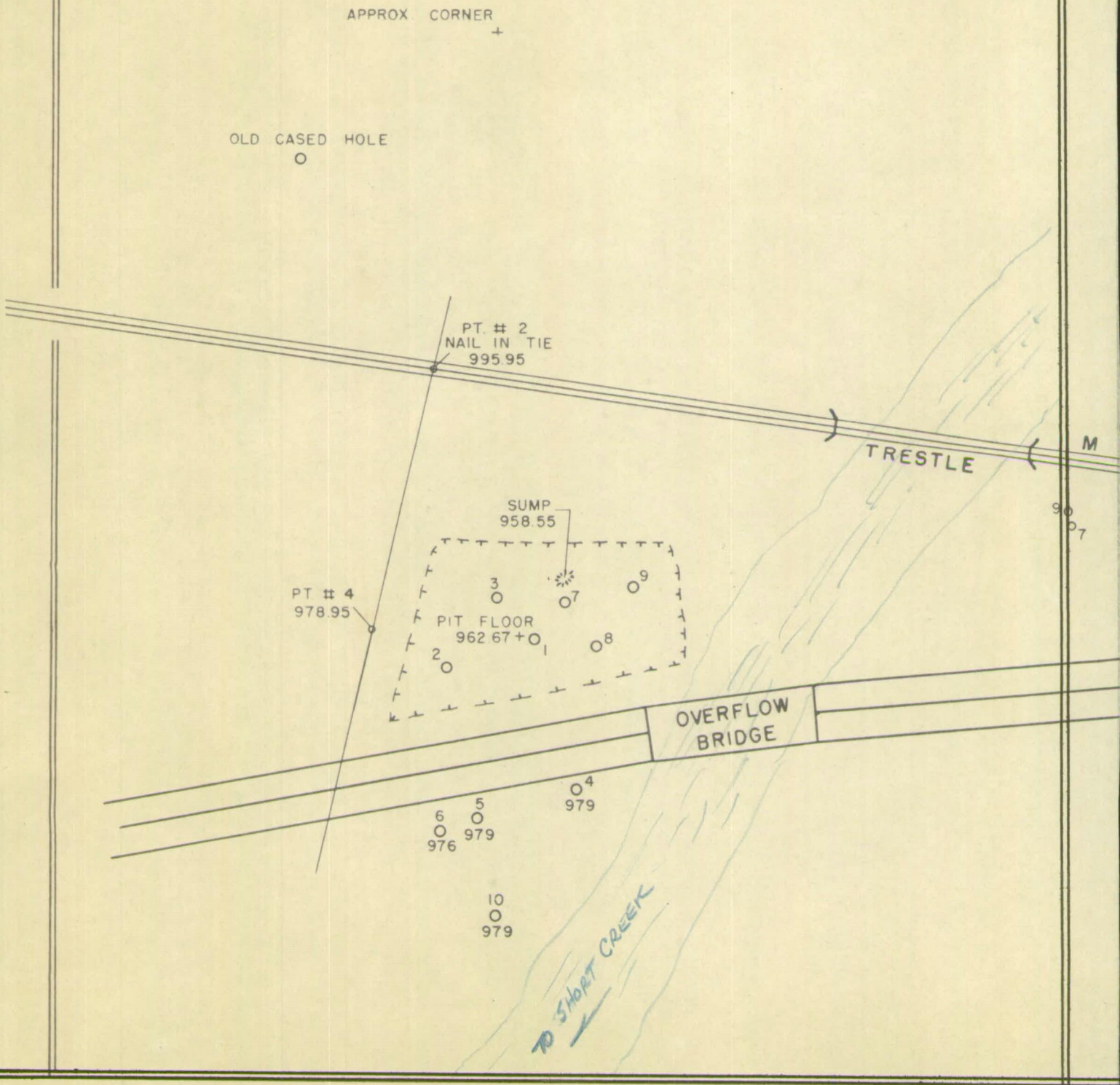


PLATE: 2 - LOCATION MAP - TWP. 34 S, RNG. 25 E, CHEROKEE COUNTY, KANSAS. SCALE: 4 IN. = 1 MILE

BUREAU OF MINES

BUREAU OF MINES
JOPLIN, MO.