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## MT. PENNELL PROSPECT SPECIMENS

- ① Fresh monzonite porphyry from ridge northeast of old acid site
- ② Clay altered monzonite porphyry from zone on ridge possibly 10 feet wide
- ③ Mineralized outcrop on ridge, gray, fuzzy textured monz-porphyry with weak sulphide

## NOTES ON THE MOUNT PENNELL

### COPPER PROSPECT

J. K. Jones

May 24, 1971

Some data taken from a report by R. K. Germundson, Ph.D., Consulting Geologist for Dynamo Mines, Ltd., N.P.L., Suite 111, 736 Granville Street, Vancouver, B.C.

In October 1967, the Mount Pennell property was optioned by Dynamo Mines, Ltd., from Jay Bettles. Several thousand feet of bulldozer cuts were excavated and a test electromagnetic survey was run with negative results. At that time 39 unpatented mining claims were held by Bettles, including the Golden Horn, Copper Virgin, Mt. Pennell and Wolverton claims. These claims are situated in Sections 10 and 11, Township 33 South, Range 10 East, 47 miles by road south of Hanksville, Utah. A road log is appended.

A diorite porphyry stock approximately  $1\frac{1}{2}$  miles in diameter centered on Mt. Pennell, intrudes Cretaceous and Jurassic continental sediments including the Mancos shale, Dakota sandstone, Morrison formation, and the San Rafael group. In the center of the diorite porphyry stock is a quartz monzonite porphyry stock approximately 4,000 feet in diameter. Except for clay-altered zones a few feet to a few tens of feet wide, trending a little west of north, the monzonite porphyry appears unaltered. Very steep slopes and an abundance of talus cover characterize the area.

Along a zone of closely spaced fractures thought to trend about N 10 W, are a few exposures of quartz monzonite containing numerous specks of chrysocolla and malachite and numerous very thin films of chalcopyrite with a little bornite. Monzonite porphyry is not strongly altered within the mineralized zone, but texture is indistinct suggesting the possibility of weak to moderate feldspar-destructive alteration. Banks of the bulldozer cuts were badly sluffed at the time of examination, so determination of width of the mineralized zone could not be made. H. Doelling, of the Utah Geological Survey, reported a 25-foot width of 2.0% to 3.4% copper with traces of gold and silver in August 1956. Germundson reports assays ranging from 0.7% to 2.4% copper, with

average values in the range of 1% to 1½% copper. A sample map, dated Oct. 30, 1964, by Bill Lyons of Vanadium Corporation, indicates 42 feet at an average grade of 3.5% copper, apparently from the same locality sampled by Doelling and Germundson.

Hunt also made available a plan map and cross section which he attributes to Shattuck-Denn Mining Company, and which portrays results of surface sampling and diamond drilling conducted in 1957. Results of five samples taken at different places on the mineralized zone are listed below.

<u>Sample Number</u>	<u>Width</u>	<u>oz Au</u>	<u>oz Ag</u>	<u>% Cu</u>
5-1	12 ft	0.01	0.34	1.87
5-2	8"	trace	1.30	2.24
5-3	4"	trace	1.20	2.16
5-4	8"	trace	0.70	1.81
5-5	8"	0.02	0.46	1.62

Approximately 700 feet of diamond drilling was accomplished under the direction of Carl Applin, who is now with the AEC in Grand Junction, Colorado. Six holes were fanned out from a single site at the portal of an old adit which Hunt reports is the same location sampled by Doelling and Germundson. Detailed assay results of the drilling are not available, but general grade ranges of assays are shown. The map indicates a zone ranging up to 40 feet in width containing 0.5% to "more than 1.0%" copper. Values diminish at depth, although this may be due to the drill holes diverging from the dip of the mineralized zone. No copper values are indicated in the 218-foot hole drilled into the east wall at about right angles to the trend of mineralized zone.

An I.P. survey was run by New Jersey Zinc Company two years ago.

MT. PENNELL COPPER DEPOSIT  
Section 10, T. 33 S., R. 10 E.

Mt. Pennell is approximately 40 miles by road south of Hanksville, Utah.

The Mt. Pennell copper deposit is owned by Kay Hunt of Hanksville, Utah, and is currently being explored by Vanadium Corporation of America. According to Mr. Hunt VCA has run geochemical tests on the property and located an anomaly. VCA has also constructed the access road to the workings during the spring and summer of 1965.

Mineralization on Mt. Pennell has been known to exist for many years. Many old shallow pits can be found on the mountain and on nearby Bulldog Ridge. C. B. Hunt in U.S.G.S. PP 228, Plate 7, shows three prospects in Section 11, that have not been relocated as yet. Those examined during this study are shown on the accompanying map. Most of these pits were sampled and assayed. Results of the assays made by Black & Deason of Salt Lake City, Utah, are indicated on the map. Most of the mineralization seems to be localized in zones or fissure systems. The main prospects are part of a N. 10° W. trending zone, which has an average thickness of 25 feet and seems to extend vertically into the mountain. The length of the zone is indeterminable because of soil and talus cover of much of the mountain side. A brunton-pace traverse indicated that the zone may extend for a considerable distance, although the northernmost exposures of copper mineralization showed only sparse amounts. Malachite is the most common mineral, but locally chalcopyrite and bornite can also be noted. No copper mineralization was noted on Bulldog Ridge, although at one location a hint of sulfides was seen. The analysis of a sample at this location indicated a small amount of gold--the sample was not checked for copper.

Thin-section examination reveals that the copper mineralization is concentrated in very thin fractures in the rock--stockwork fashion. Iron-stained areas consistently show traces of gold and silver in assays.



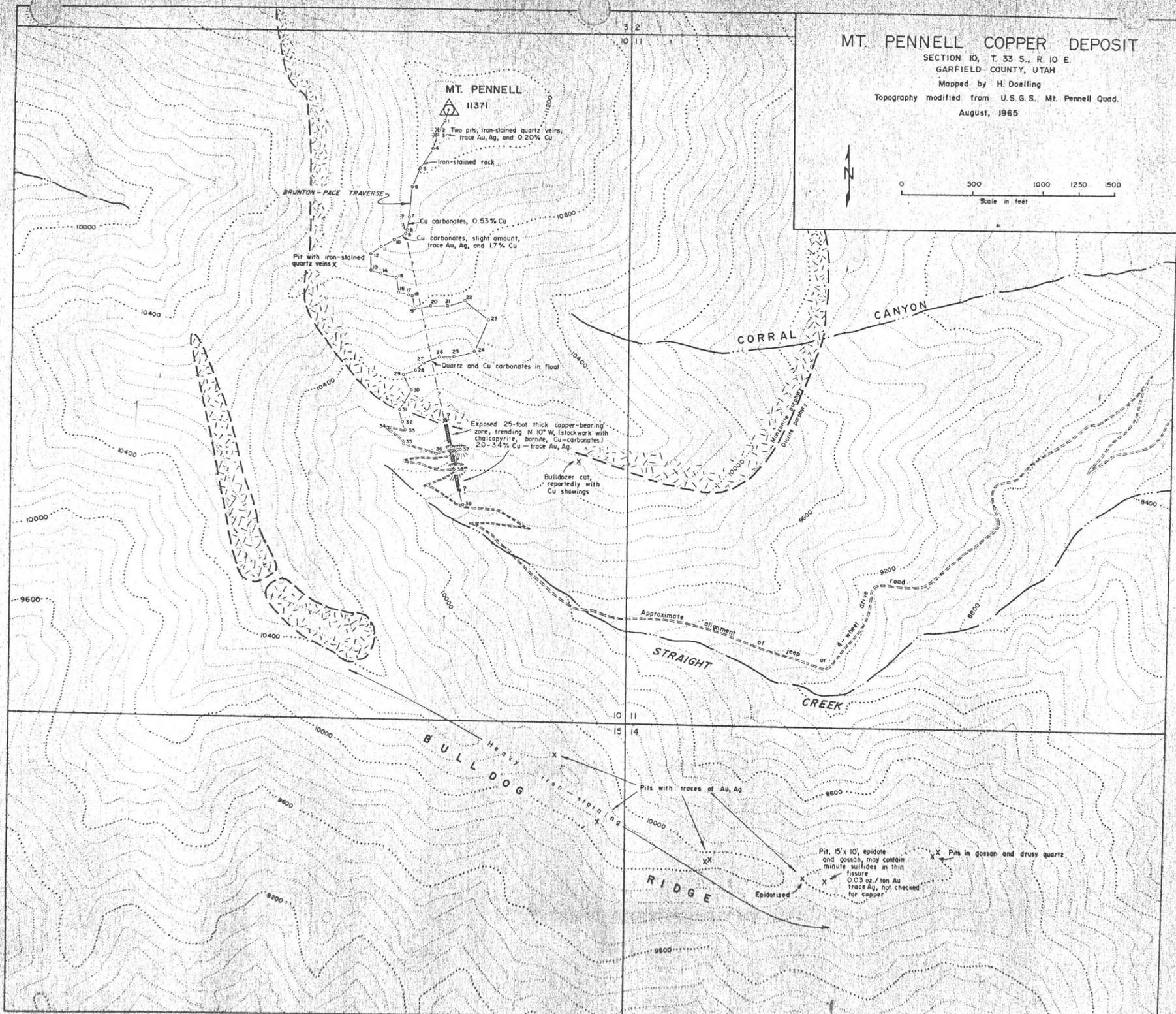
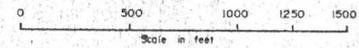
# MT. PENNELL COPPER DEPOSIT

SECTION 10, T. 33 S., R. 10 E.  
GARFIELD COUNTY, UTAH

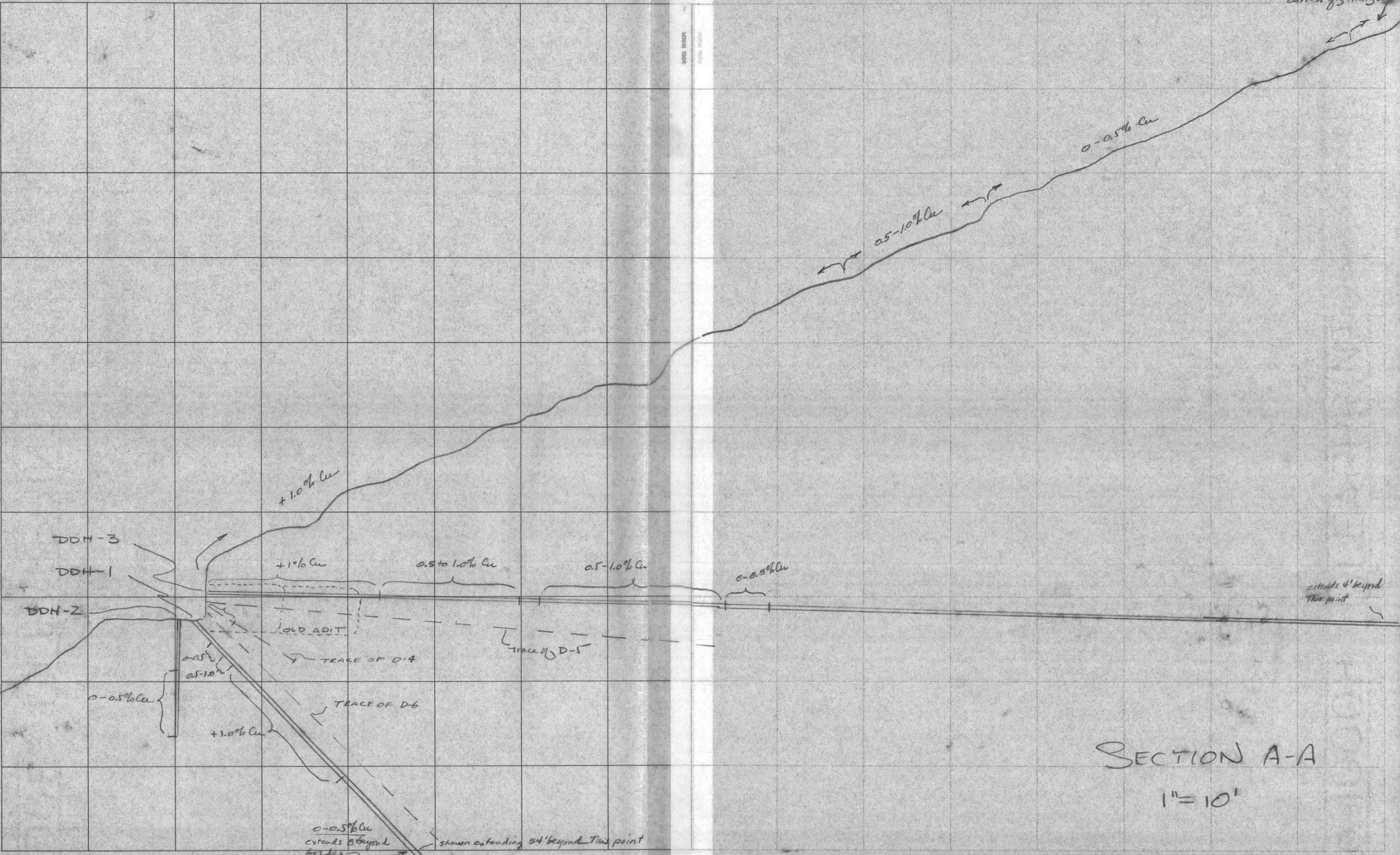
Mapped by H. Doelling

Topography modified from U.S.G.S. Mt. Pennell Quad.

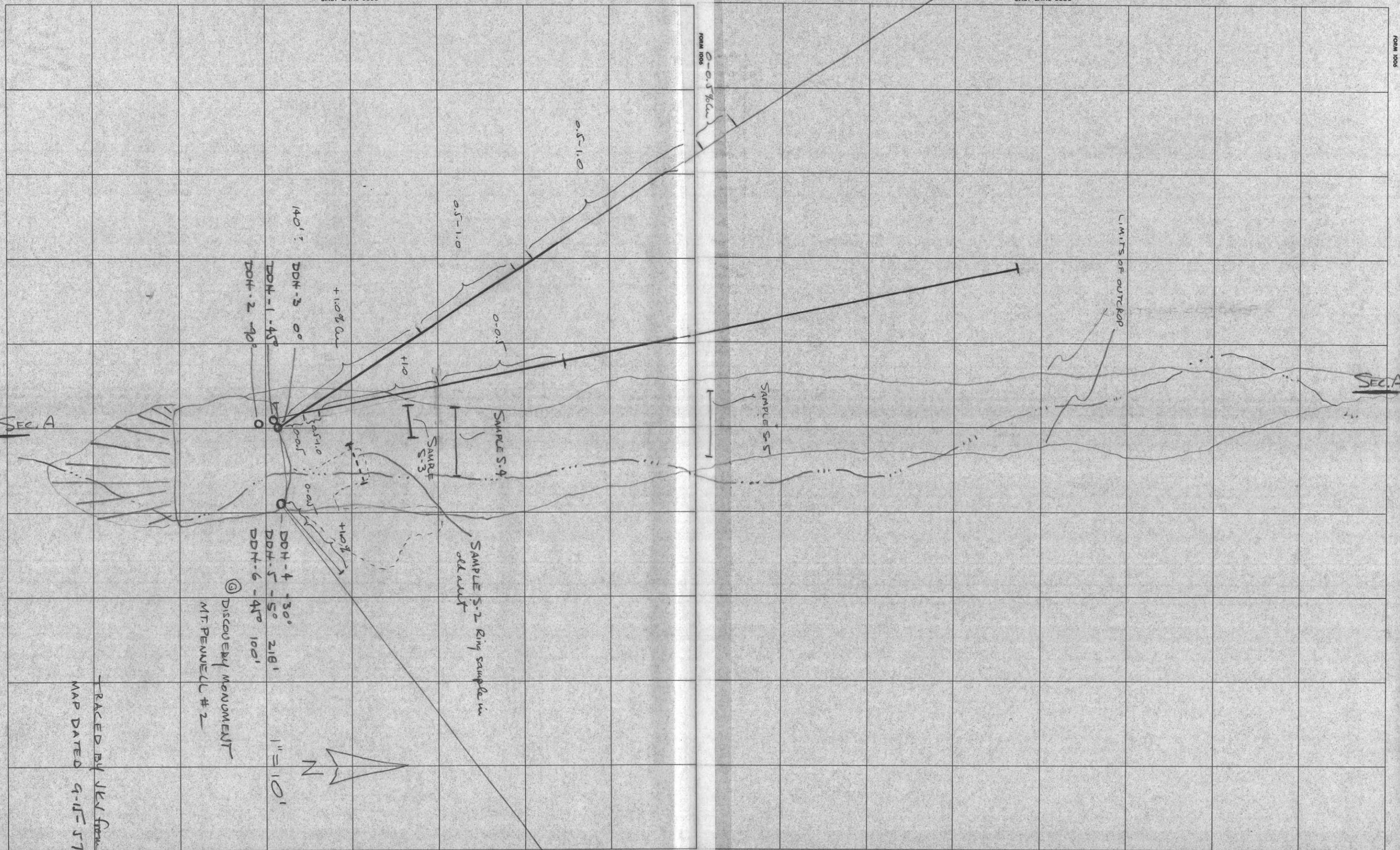
August, 1965



barren gfs min 3-



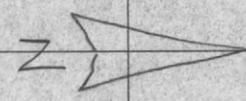
SECTION A-A  
1" = 10'



TRACED BY JLV from  
MAP DATED 9-15-57

© DISCOVERED BY MONUMENT  
M.F. PENNELL # 2

1" = 100'





*Return to Clerk  
Mt. Pennell  
6 mos. Oct. 27 to April 27*

OPTION AGREEMENT

This Agreement entered into as of the 27 day of OCTOBER, 1970 by and between KAY HUNT of Hanksville, Utah, herein referred to as Owner, and SURPLUS MATERIALS CORPORATION, a corporate body, herein referred to as Optionee.

WITNESSETH:

WHEREAS, Owner owns certain mining claims and properties identified in Section I of this Option Agreement.

NOW, THEREFORE, in consideration of the sums paid by Optionee to Owner and of the payments hereinafter covenanted to be paid to Owner, the parties hereto mutually and severally covenant and agree as follows:

I. DESCRIPTION OF PROPERTY

The mining claims and properties intended to be covered by this Option Agreement are situated in Garfield County, Utah in the vicinity of the Mt. Pennell, in Townships 32 and 33 South, Range 10 East, Salt Lake Meridian, known as:

<u>Name of claim(s)</u>	<u>Recorded in Garfield Co., Utah</u>	
	<u>Book</u>	<u>Page(s)</u>
Golden Horn Nos. 1 through 5	27	387-391
Mt. Pennell No. 1	85	405
Mt. Pennell Nos. 2 through 7	97	550-555
Mt. Pennell No. 8	133	223
Mt. Pennell Nos. 9 through 11	138	561-563
Copper Virgin Nos. 1 through 8	27	392-399
Wolverton Nos. 2 through 6	131	407-411
Mt. Pennell Mill Site	126	136

(a total of 30 claims)

herein referred to as the "optioned premises"

II. OPTION

For a period of Nineteen (19) years and eight (8) months from and after the effective date of this Option Agreement, Optionee shall have the exclusive right and option to demand and receive from Owner,

his successors in interest, legal representatives and assigns, a good, sufficient and properly executed and acknowledged mining deed, conveying to Optionee the mining claims and all interests therein as identified in Section I hereof, together with all and whatsoever the rights, titles and interest therein and thereunder owned by Owner, whether presently owned or after acquired, upon payment of a total purchase price of Five Hundred Thousand Dollars (\$500,000.00) payable in installments as set forth herein below.

It is expressly understood and agreed that upon exercise of the option and tender of the purchase payment as provided above, all rights of Owner to receive future payments and royalties shall terminate. Owner agrees that, upon the written request of Optionee, Owner will properly execute and acknowledge a mining deed in accordance with the provisions of this Option Agreement and deposit the same in escrow with an escrow agent mutually acceptable to Owner and Optionee, with appropriate escrow instructions to be signed by Owner and Optionee.

### III. OPTION PAYMENTS

In consideration of this Option Agreement, Optionee has paid to Owner an initial down payment of One Thousand Dollars (\$1,000.00) and thereafter will pay to Owner One Thousand Dollars (\$1,000.00) on the anniversary date each month for the first five (5) years, and thereafter Two Thousand Five Hundred Dollars (\$2,500.00) on the anniversary date each month for the next succeeding fifteen (15) years, or until the aggregate amounts paid to Owner as provided herein totals Five Hundred Thousand Dollars (\$500,000.00).

Anything herein to the contrary notwithstanding, Optionee shall not be obligated or under any duty to make any payments hereunder,

but failure to do so shall be grounds for termination and cancellation of this agreement as provided herein below.

#### IV. RIGHTS OF OPTIONEE

So long as this Option Agreement shall remain in effect as provided herein, Optionee shall have the exclusive right to enter into possession of the optioned premises and to explore, prospect, develop, excavate, sample, mine, extract and sell minerals and ores of whatsoever kind and character, including all surface and underground occupancy and activities appertaining thereto, without obligation to pay Owner other than the installment option payments provided for in Section III, above. Optionee shall have the exclusive right to use all structures, equipment and facilities located upon said premises, and the right to place and use thereon, and to remove, all such equipment, vehicles, machinery, building, structures, and facilities as it may deem desirable at any time.

Optionee is expressly granted the free right to mine and transport ores through, over and across the optioned premises in order to explore, develop or mine any portion of the optioned premises or any other property operated, owned or controlled by Optionee, during the term of this agreement or thereafter.

#### V. ASSESSMENT WORK

Optionee agrees to perform all annual assessment labor which may be required under the Mining Laws of the United States for all unpatented mining claims covered by this agreement commencing immediately and to record proper Affidavits of Assessment Labor as required by law. Surrender of all or any claims covered hereby shall terminate Optionee's obligation hereunder, but Owner may apply any work or expenditure made by Optionee toward the then current year's assessment labor requirements.

Owner agrees that Optionee may perform group assessment work at any location of Optionee's choice, and that such work done or caused to be done by Optionee aggregating the equivalent value of one hundred dollars per claim shall satisfy Optionee's obligation to perform annual assessment work hereunder, notwithstanding any holding by any court that such work does not constitute the required annual assessment work for purposes of preserving title to such claims.

#### VI. TAXES, RECORDS, LIENS

Optionee shall pay all federal, state and county taxes assessed against the Optioned Premises, improvements thereon or production therefrom during the period during which this Option Agreement shall remain in effect. Surrender or termination hereof shall immediately relieve Optionee of any obligation to pay future taxes or assessments thereafter levied, whether based on "net annual proceeds" or otherwise, except that as to taxes assessed for any calendar year in which this agreement is terminated or surrendered. Optionee shall pay a proportion of such taxes determined by the ratio to 365 days in such calendar year during which this agreement remained in effect. Owner and Optionee shall each pay their respective federal, state and local income taxes based upon receipt of taxable income.

Optionee shall keep and maintain complete and accurate records of minerals, ores and values extracted and sold from the optioned premises and the value received therefor. Owner may at any reasonable time inspect the same for any reasonable purpose incident to this agreement.

Optionee agrees to keep the optioned premises free of all liens and encumbrances arising out of Optionee's operations thereon. Optionee may, but without obligation to do so, advance money to satisfy

any lien upon said premises arising out of Owner's ownership or interest therein and collect twice the amount so advanced out of first payments due Owner hereunder.

## VII. TITLES

Owner represents that it owns the title to the mining claims covered by this agreement and that the claims are validly located and maintained in accordance with applicable law, free from any encumbrances which would affect the terms of this agreement. Owner agrees to defend title to said claims and Owner's interest therein, but Optionee may, without obligation to do so, defend or initiate litigation to protect title or contribute to said defense or protection, and amounts so expended shall be a credit in full toward first payments due Owner hereunder.

If Owner owns as to any particular mining claim or claims covered hereby, an interest less than the full and entire possessory interest therein, then the payments due Owner hereunder shall be reduced proportionately according to the proportion which Owner's interest bears to the full and entire possessory interest therein and thereunder.

Optionee may, at its own expense, relocate or amend claims within the optioned premises, and apply for patent thereto, in the name of Owner, provided that costs expended in connection with any application for patent shall be credited in full toward the total purchase price.

Owner agrees that any mining claims owned or hereafter acquired during the term of this agreement within a radius of 1 mile from the exterior boundaries of the optioned premises shall be covered by this agreement without the payment by Optionee of additional consideration therefor.

### VIII. SURRENDER, TERMINATION

Optionee may at any time give written notice to Owner of its intention to surrender all or any part of the optioned premises whereupon Optionee's obligation to make option payments hereunder shall promptly cease or be reduced proportionately as to the part retained.

This Option Agreement is made upon condition that Optionee shall timely pay Owner all option payments provided for herein. If Optionee shall fail to make any payment when due, or shall fail to comply with any of the other conditions or requirements of this agreement, Optionor may, upon giving thirty (30) days notice in writing to Optionee specifying the nature of such default, cancel and terminate this agreement unless, within thirty (30) days after receipt of such notice, Optionee shall correct the default, if the default relates to payments or if the default relates to other than payments, Optionee undertakes within said thirty (30) days in good faith to correct the default and diligently proceeds to remedy the default.

In the event of surrender or termination, Optionee agrees to furnish Optionor upon request a quit-claim of its right, title and interest so surrendered or terminated. In any event, Optionee shall have ninety (90) days after surrender or termination to remove all personal property, equipment, buildings and facilities from said premises, and all such property remaining thereon after said ninety (90) days period shall become the property of Owner.

THE PROVISIONS HEREOF shall inure to the benefit of and shall be binding upon the successors in interest, heirs and legal representatives, and assigns of the respective parties hereto, but no party hereto shall be chargeable with notice of any assignment or conveyance until such party shall have been furnished with written notice

thereof and with a duplicate certified or photographic copy of the instrument of assignment or conveyance.

IX. NOTICES

Any notice or communication required or permitted hereunder shall be effective when personally delivered or shall be effective when addressed:

If to OPTIONEE:

Essex International, Inc.  
1601 Wall Street  
Fort Wayne, Indiana 46804

with copy to:

Essex International, Inc.  
1706 West Grant Road  
Tucson, Arizona 85705

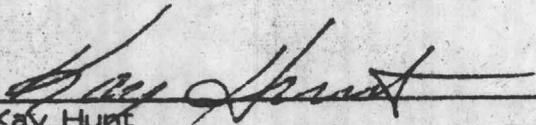
If to OWNER:

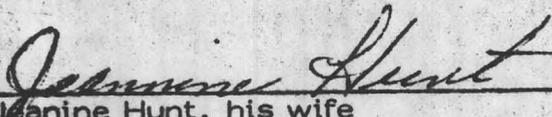
Mr. Kay Hunt  
P.O. Box 45  
Hanksville, Utah 84734

and deposited, postage prepaid, certified or registered, in the United States mail. Either party may, by notice to the other given as aforesaid, change its mailing addresses for future notices hereunder.

IN WITNESS WHEREOF, these presents are executed as of the day and year first above written.

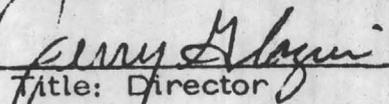
OWNER:

  
\_\_\_\_\_  
Kay Hunt

  
\_\_\_\_\_  
Jeanine Hunt, his wife

OPTIONEE:

SURPLUS MATERIALS CORPORATION

By   
\_\_\_\_\_  
Title: Director

STATE OF UTAH )  
COUNTY OF Wayne )

On this 27 day of October, 1970, personally appeared before me KAY HUNT and JEANINE HUNT, his wife, the signers of the foregoing instrument, who duly acknowledge to me that they executed the same.

Wesley F. Etkin  
Notary Public  
Residing: Hanksville, Utah

My Commission Expires:  
2/13/73

STATE OF UTAH )  
COUNTY OF WASHINGTON )  
TON

On this 2 day of November, 1970, personally appeared before me Jerry Slazier, who being by me duly sworn did say that he, said Jerry Slazier is a Director of SURPLUS MATERIALS CORPORATION, and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said Jerry Slazier duly acknowledged to me that said corporation executed the same and that the seal affixed is the seal of said corporation.

Oscar Barrick  
Notary Public  
Residing: Harrison, Utah

My Commission Expires:  
5-18-74

QUIT CLAIM DEED

JAY BETTLES, a widower, Grantor, of Denver, \_\_\_\_\_  
 County, State of Colorado, hereby QUIT CLAIMS to KAY HUNT, Grantee,  
 of Hanksville, Wayne County, State of Utah, for the sum of One and  
 no/100 -----(\$1.00) DOLLARS, and other good and valuable con-  
 sideration, the following unpatented mining claims situate in the  
 Henry Mountain Mining District, Garfield County, State of Utah, as  
 follows, to-wit:

Golden Horn No. 1	recorded in Book 27, page 387
Golden Horn No. 2	recorded in Book 27, page 388
Golden Horn No. 3	recorded in Book 27, page 389
Golden Horn No. 4	recorded in Book 27, page 390
Golden Horn No. 5	recorded in Book 27, page 391
Copper Virgin No. 1	recorded in Book 27, page 392
Copper Virgin No. 2	recorded in Book 27, page 393
Copper Virgin No. 3	recorded in Book 27, page 394
Copper Virgin No. 4	recorded in Book 27, page 395
Copper Virgin No. 5	recorded in Book 27, page 396
Copper Virgin No. 6	recorded in Book 27, page 397
Copper Virgin No. 7	recorded in Book 27, page 398
Copper Virgin No. 8	recorded in Book 27, page 399
Mt. Pennell No. 1	recorded in Book 85, page 405
Mt. Pennell No. 2	recorded in Book 97, page 550
Mt. Pennell No. 3	recorded in Book 97, page 551
Mt. Pennell No. 4	recorded in Book 97, page 552
Mt. Pennell No. 5	recorded in Book 97, page 553
Mt. Pennell No. 6	recorded in Book 97, page 554
Mt. Pennell No. 7	recorded in Book 97, page 555
Mt. Pennell Mill Site	recorded in Book 126, page 136
Mt. Pennell No. 8	recorded in Book 133, page 223
Mt. Pennell No. 9	recorded in Book 138, page 561
Mt. Pennell No. 10	recorded in Book 138, page 562
Mt. Pennell No. 11	recorded in Book 138, page 563
Wolverton No. 2	recorded in Book 131, page 407
Wolverton No. 3	recorded in Book 131, page 408
Wolverton No. 4	recorded in Book 131, page 409
Wolverton No. 5	recorded in Book 131, page 410
Wolverton No. 6	recorded in Book 131, page 411

All in the records of the County Recorder of Garfield  
 County, Utah.

WITNESS, the hand of said Grantor, this 27<sup>th</sup> day of

September, 1970.

Signed in the presence of:

Jay Bettles  
 JAY BETTLES

James M. [Signature]

- 2 -

PROVINCE OF BRITISH COLUMBIA )  
COUNTY OF VANCOUVER )

On the 22nd day of September 1970 personally appeared before me JAY BETTLES, a widower, the signer of the above and foregoing instrument, who duly acknowledged to me that he executed the same.

*[Handwritten Signature]*  
Notary Public in and for  
the Province of British  
Columbia.  
(My commission is perpetual)

A circular notary seal for James H. Bettles, Notary Public in and for the Province of British Columbia. The seal contains the text "JAMES H. BETTLES", "NOTARY PUBLIC", and "PROVINCE OF BRITISH COLUMBIA".

**125969**  
ENTRY NO. \_\_\_\_\_ RECORDED 10-9 19 70 AT 11 AM  
AT REQUEST OF Kay Hunt  
FEE \$ 17.50  
*[Handwritten Signature]*  
RECORDER GARFIELD COUNTY, UTAH  
DEPUTY

QUIT CLAIM DEED

LLOYD EDWIN MEAR, a single man, Grantor, of Vancouver, British Columbia, Canada, hereby QUIT CLAIMS to KAY HUNT, of Hanksville, Wayne County, State of Utah, for the sum of One and no/100 ----- (\$1.00) DOLLARS, and other good and valuable consideration, the following unpatented mining claims situate in the Henry Mountain Mining District, Garfield County, State of Utah, as follows, to-wit:

Golden Horn No. 1	recorded in Book 27, page 387
Golden Horn No. 2	recorded in Book 27, page 388
Golden Horn No. 3	recorded in Book 27, page 389
Golden Horn No. 4	recorded in Book 27, page 390
Golden Horn No. 5	recorded in Book 27, page 391
Copper Virgin No. 1	recorded in Book 27, page 392
Copper Virgin No. 2	recorded in Book 27, page 393
Copper Virgin No. 3	recorded in Book 27, page 394
Copper Virgin No. 4	recorded in Book 27, page 395
Copper Virgin No. 5	recorded in Book 27, page 396
Copper Virgin No. 6	recorded in Book 27, page 397
Copper Virgin No. 7	recorded in Book 27, page 398
Copper Virgin No. 8	recorded in Book 27, page 399
Mt. Pennell No. 1	recorded in Book 85, page 405
Mt. Pennell No. 2	recorded in Book 97, page 550
Mt. Pennell No. 3	recorded in Book 97, page 551
Mt. Pennell No. 4	recorded in Book 97, page 552
Mt. Pennell No. 5	recorded in Book 97, page 553
Mt. Pennell No. 6	recorded in Book 97, page 554
Mt. Pennell No. 7	recorded in Book 97, page 555
Mt. Pennell Mill Site	recorded in Book 126, page 136
Mt. Pennell No. 8	recorded in Book 133, page 223
Mt. Pennell No. 9	recorded in Book 138, page 561
Mt. Pennell No. 10	recorded in Book 138, page 562
Mt. Pennell No. 11	recorded in Book 138, page 563
Wolverton No. 2	recorded in Book 131, page 407
Wolverton No. 3	recorded in Book 131, page 408
Wolverton No. 4	recorded in Book 131, page 409
Wolverton No. 5	recorded in Book 131, page 410
Wolverton No. 6	recorded in Book 131, page 411.

All in the records of the County Recorder of Garfield County.

WITNESS, the hand of said Grantor, this 14<sup>th</sup> day of SEPTEMBER, 1970.

Lloyd Edwin Mear  
LLOYD EDWIN MEAR

Signed in the presence of:  
[Signature]

CITY OF VANCOUVER, )  
PROVINCE OF BRITISH COLUMBIA, CANADA. ) ss.

On this 10<sup>th</sup> day of September, personally appeared before me LLOYD EDWIN MEAR, a single man, the signer of the above and foregoing instrument, who duly acknowledged to me that he executed the same.

*[Handwritten Signature]*

NOTARY PUBLIC  
Residing at Vancouver

(SEAL)

My commission expires 15 for life

125970  
ENTRY NO. \_\_\_\_\_ RECORDED 10-9 19 70 AT 11 AM  
AT REQUEST OF Kay Hunt  
FEE \$ 17.50  
*[Signature]*  
RECORDER GARFIELD COUNTY, UTAH  
DEPUTY

QUIT CLAIM DEED

DYNAMO MINES LTD. (N.P.L.), a body corporate, having its registered office at Suite 404-510 West Hastings Street, Vancouver, British Columbia, Canada, Grantor, hereby QUIT CLAIMS to KAY HUNT, of Hanksville, Wayne County, State of Utah, for the sum of One and no/100 -----(\$1.00) DOLLARS, and other good and valuable consideration, the following unpatented mining claims situate in the Henry Mountain Mining District, Garfield County, State of Utah, as follows, to-wit:

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Wolverton No. 4	recorded in Book 131, page 409
Wolverton No. 5	recorded in Book 131, page 410
Wolverton No. 6	recorded in Book 131, page 411.

All in the records of the County Recorder of Garfield County, Utah.

IN WITNESS WHEREOF, the said DYNAMO MINES, LTD., (N.P.L.) a corporation, has caused its corporate name and seal to be

hereunto affixed by its duly authorized officers this 14<sup>th</sup>  
day of September, 1970.

DYNAMO MINES LTD. (N.P.L.), a  
Corporation,

(CORPORATE SEAL)

By [Signature]  
President  
(TITLE)

Attest:

[Signature]  
Notary Public in and for the Province of  
(TITLE)  
[Signature]

CITY OF VANCOUVER, )  
PROVINCE OF BRITISH COLUMBIA, CANADA: ) ss.

On this 14<sup>th</sup> day of September, 1970, personally  
appeared before me Lloyd Edwin Mew and  
[Signature], who being by me duly sworn, did  
say: that he, the said Lloyd Edwin Mew, is the  
President, and he, the said [Signature],  
is the [Signature] of DYNAMO MINES, LTD. (N.P.L.),  
a corporation, and that the above instrument was signed in behalf  
of said corporation by authority of a resolution of its board of  
directors, and said Lloyd Edwin Mew and  
[Signature], acknowledged to me that said  
corporation executed the same and that seal affixed is the seal  
of said corporation.



[Signature]  
NOTARY PUBLIC  
Residing at Vancouver B.C. Canada

(SEAL)

My commission expires:

at large

125971  
ENTRY NO. \_\_\_\_\_ RECORDED 10-9 1970 At 11 AM  
AT REQUEST OF Kay Hunt  
FEE \$ 17.50  
[Signature]  
DEPUTY

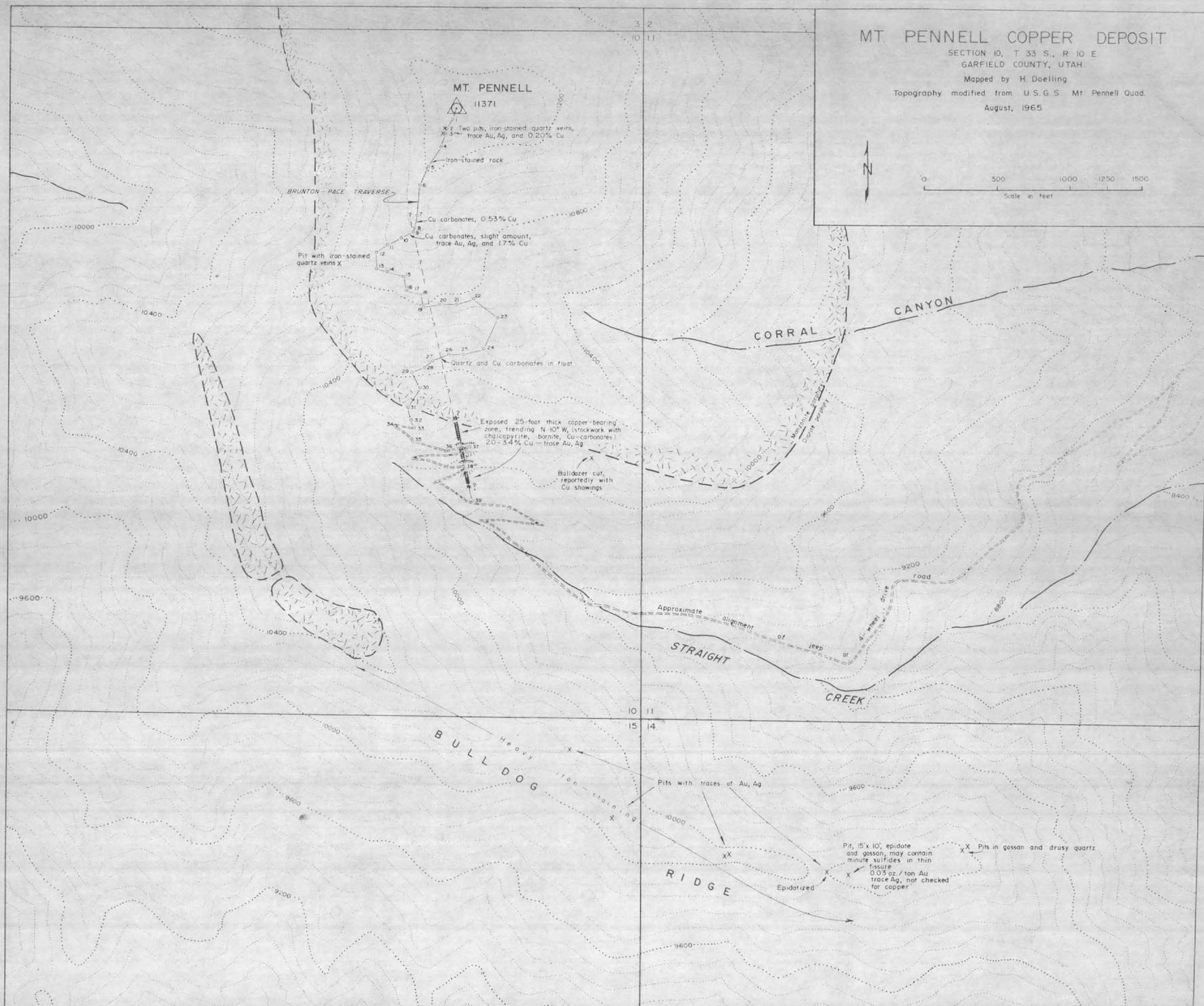
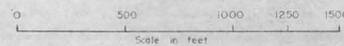
# MT. PENNELL COPPER DEPOSIT

SECTION 10, T 33 S., R 10 E  
GARFIELD COUNTY, UTAH

Mapped by H. Doelling

Topography modified from U.S.G.S. Mt. Pennell Quad.

August, 1965



ESSEX INTERNATIONAL, INC.

REPORT NO. - Met. 71-2-1

Feb. 2, 1971

TO: H. Lanier

FROM: C. K. Chase

SUBJECT: Flotation Test on Mt. Pennell  
Sulfide Ore

Conclusion: The Mt. Pennell sulfide ore contains a proportion of the copper mineralization as bornite ( $\text{Cu}_5\text{FeS}_4$  - Cu 63%), the remainder being chalcopyrite. A rougher flotation test showed an 81% extraction of the sulfide copper from this partially oxidized sample boulder. Since bornite is a relatively high-grade copper mineral, it appears reasonable to predict a copper concentrate grade of 30% Cu being obtainable with regrind and cleaning. On this basis, the gold content of the concentrate would be 0.11 oz./ton and the silver level would be 5.6 oz./ton. These are appreciable precious metal values. The total values in a ton of concentrate would be of the following magnitude:

Copper	- 600 lbs @ 50¢	= \$300.00
Gold	- 0.11 oz./ton @ \$38*	= 4.18
Silver	- 5.6 oz./ton @ \$1.63*	= 9.12
		<u>\$313.30</u>

Procedure: During an inspection of the Mt. Pennell property, a 200 lb. boulder from an exposed portion of the orebody was collected. Some evidence of oxidation was seen but the greater part of the copper was sulfide. The boulder was broken up into a test sample and a rougher flotation test was run. Details of the flotation test are attached on a Metcon report sheet.

CKC

C. K. Chase

CKC:td

\*Current E&MJ quotations.

# METCON RESEARCH INC.

1796 WEST GRANT

(602) 623-5045  
RES (602) 297-3273

TUCSON ARIZONA 85703

## Preliminary Float Test

DATE 12/10/70

TEST NO. RF-1

PROJECT NO. EI-114.5

ORE TYPE MP

PRODUCT	WEIGHT	% WT.	ASSAY							DISTRIBUTION				
			T.Cu	Ox.Cu	S.Cu	Au.	Ag.			T.Cu	Ox.Cu	S.Cu		
Assay #														
5949 Ro Conc	42.9	4.31	10.70	0.67		0.040	2.00					64.96	15.83	81.89
5950 Ro Tlg	952.9	95.69	0.26	0.16								35.04	84.17	18.11
Tot. Wt.	995.8													
Calculated Heads			0.71	0.18	0.53									
5909 Assay Head			0.68											
5949 Ro Conc														
			Au	Ag										
			0.040	2.00										

OPERATION	Grind	Float	Float	GRIND		
				screen	Wt	%
TIME /Min.	15	3	3			
REAGENTS-IBS./TON						
CaO		0.830				
Z-6		0.01	0.01			
Pine Oil		0.032				
R-39		0.016	0.016			
pH		10.5				
% SOLIDS	62					

REMARKS: Natural pH - 8.1  
Pine Oil produces shallow, brittle froth.  
R-39 stabilized froth.  
Z-6 causes froth to become fragile.

Appears to be overground.  
Some chrysocolla in tailing.

# SOUTHWESTERN ASSAYERS & CHEMISTS, Inc.

REGISTERED ASSAYERS

FELIX K. DURAZO  
WIL WRIGHT  
ARIZONA REG. NO. 5875

P. O. BOX 7517  
TUCSON, ARIZONA 85713

710 E. EVANS BLVD.  
PHONE 602-294-5811

Metcon Laboratory  
P.O. Box 5912  
Tucson, Arizona 85703

JOB# 008346  
RECEIVED 12-7-70  
REPORTED 12-11-70

SAMPLE NUMBER	GOLD OZ.*	SILVER OZ.*	LEAD %	COPPER %	ZINC %		MOLYBDENUM %
114.5: 5909				.68			

mt. Pennell  
12-3-03



CHARGE \$ 1.50

\* Gold and Silver reported in troy oz. per 2,000 lb. ton.

INVOICE

# SOUTHWESTERN ASSAYERS & CHEMISTS, Inc.

REGISTERED ASSAYERS

FELIX K. DURAZO  
WIL WRIGHT  
ARIZONA REG. NO. 5875

P. O. BOX 7517  
TUCSON, ARIZONA 85713

710 E. EVANS BLVD.  
PHONE 602-294-5811

Metcon Laboratory  
P.O. Box 5912  
Tucson, Arizona 85703

JOB# 008386  
RECEIVED 12-14-70  
REPORTED 12-15-70

SAMPLE NUMBER	GOLD OZ.*	SILVER OZ.*	LEAD %	COPPER %	ZINC %	Oxide of Cu. %	MOLYBDENUM %
114.5:							
5949				10.7		.67	
5950				.26		.16	

*mt. Pennell*  
*83-03*



CHARGE \$ 7.00

\* Gold and Silver reported in troy oz. per 2,000 lb. ton.

**INVOICE**

# SOUTHWESTERN ASSAYERS & CHEMISTS, Inc.

REGISTERED ASSAYERS

FELIX K. DURAZO  
WIL WRIGHT  
ARIZONA REG. NO. 5875

P. O. BOX 7517  
TUCSON, ARIZONA 85713

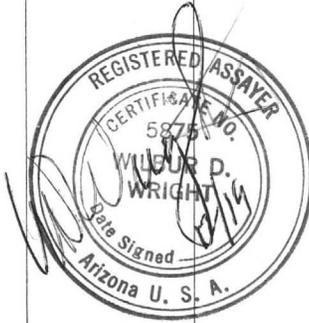
710 E. EVANS BLVD.  
PHONE 602-294-5811

Metcon Laboratory  
P.O. Box 5912  
Tucson, Arizona 85703

JOB# 008417  
RECEIVED 12-16-70  
REPORTED 12-19-70

SAMPLE NUMBER	GOLD OZ.*	SILVER OZ.*	LEAD %	COPPER %	ZINC %		MOLYBDENUM %
114.5: 5949	.040	2.00					

cont. Pennell  
83-03



CHARGE \$ 3.50

\* Gold and Silver reported in troy oz. per 2,000 lb. ton.

INVOICE

*Pennell*  
E. D. Downing

Ft. Wayne, Ind.

H. Lanier

Tucson, Arizona

Option Agreement -

Nov. 4, 1970

Mt. Pennell Property

The attached is the original of an option agreement that was arranged in the name of Surplus Materials Corporation for a group of 30 claims in the Henry Mountains in southern Utah.

This was arranged through the Dixie Basin personnel. We will need to consider our exercising an option on this property at the termination of the Dixie Basin agreement. Such an election would transfer the Mt. Pennell option to Essex from Surplus Materials Corporation.

HL:td  
attachment

November 4, 1970

Mr. Leo Smith  
902 Transamerica Bldg.  
177 N. Church  
Tucson, Arizona

Dear Leo:

Attached is a copy of the final agreement for the Mt. Pennell property which was arranged through Associated Smelters, Inc. in the name of Surplus Materials Corporation. You may wish to have a copy of this for your file.

Very truly yours,

ESSEX INTERNATIONAL, INC.

Howard Lanier, General Manager  
Copper Operations

HL:td  
attachment

*Pennell*

October 13, 1970

Mr. Kay Hunt  
P.O. Box 45  
Hanksville, Utah 84734

Dear Kay:

The recorded quit claim deeds arrived on schedule.  
I enclose our check for \$1,000.00 as agreed.

I have the typed agreement from the lawyers and  
hope to bring it to Hanksville for your signature later this  
week.

Very truly yours,

ESSEX INTERNATIONAL, INC.

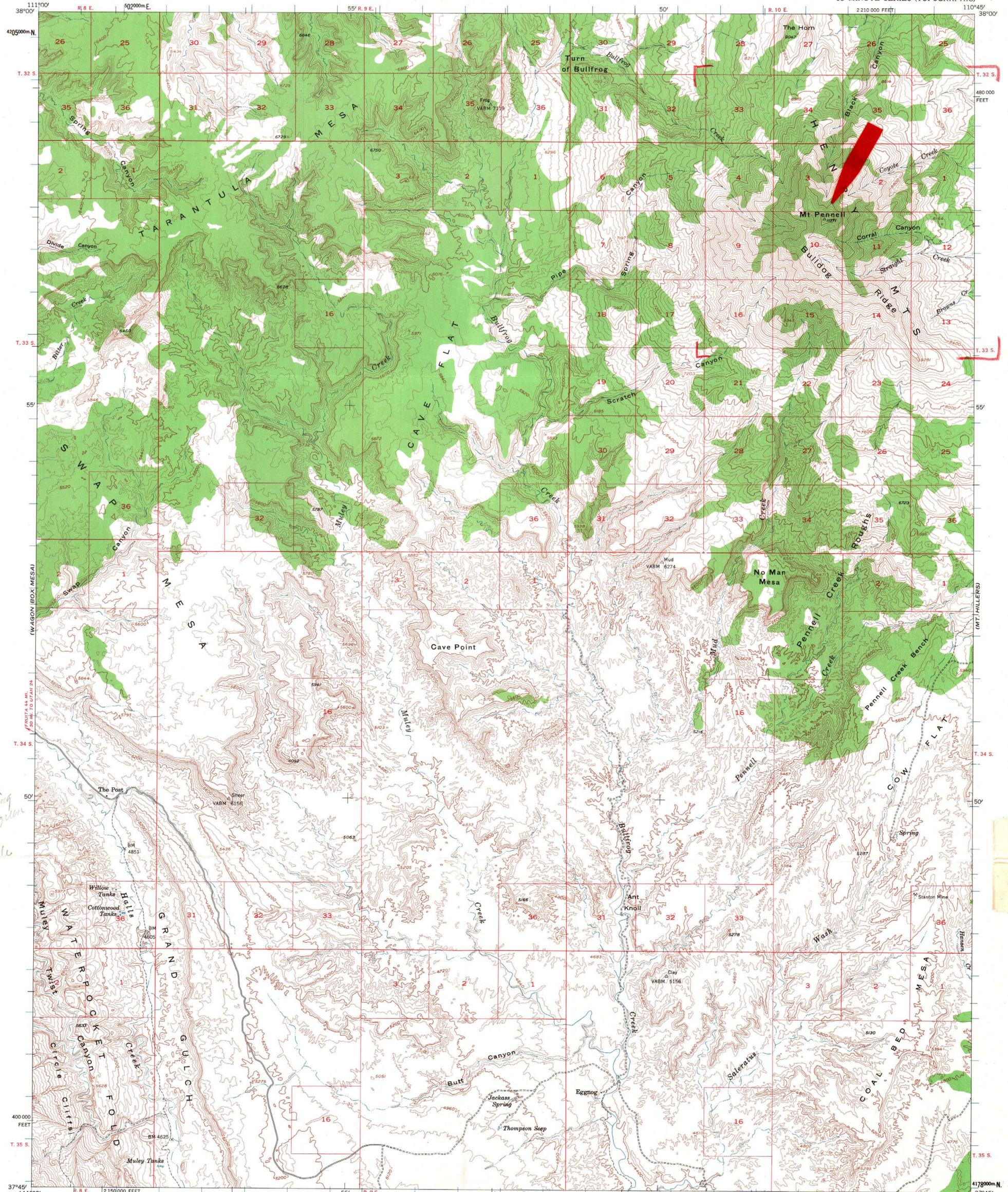
*CKC*

Clement K. Chase  
Operations Manager

CKC:td  
enclosure:  
Ch. #034-B

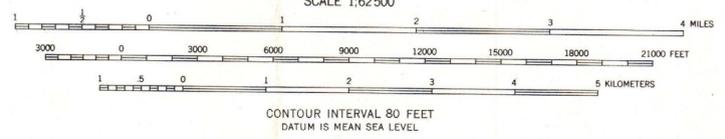
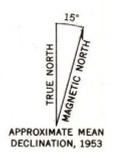
CERTIFIED MAIL  
Return Receipt Requested

Copy to H. Lanier ✓



1" = 1000'  
with  
right reading  
slight scale

Mapped, edited, and published by the Geological Survey  
with cooperation by the Atomic Energy Commission  
Control by USGS and USC&GS  
Topography from aerial photographs by multiplex methods  
Aerial photographs taken 1951-52. Advance field check 1953  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Utah coordinate system, south zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 12, shown in blue  
Unchecked elevations are shown in brown



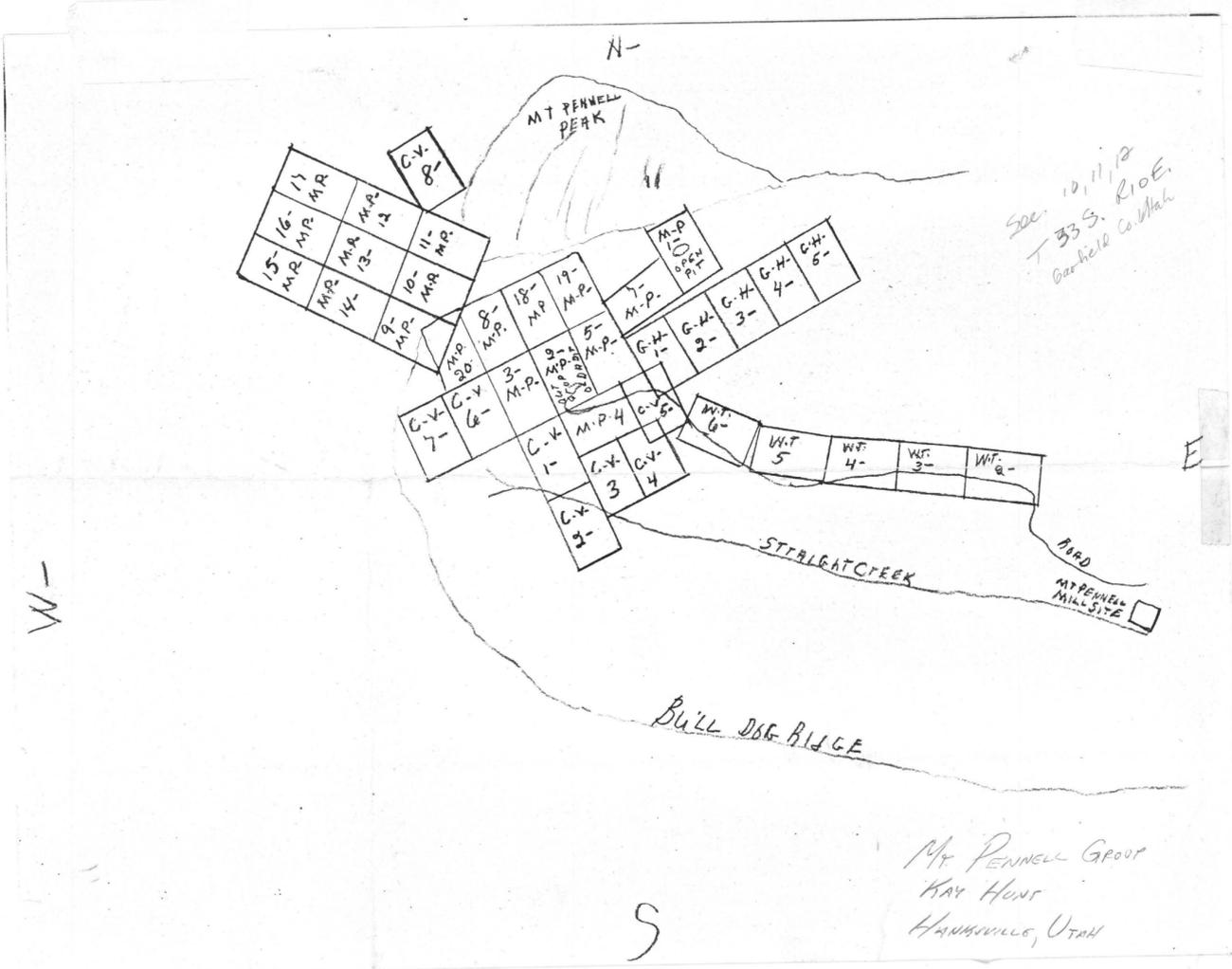
ROAD CLASSIFICATION  
Light-duty ——— Unimproved dirt ———

MT. PENNELL, UTAH  
N3745—W11045/15  
1953

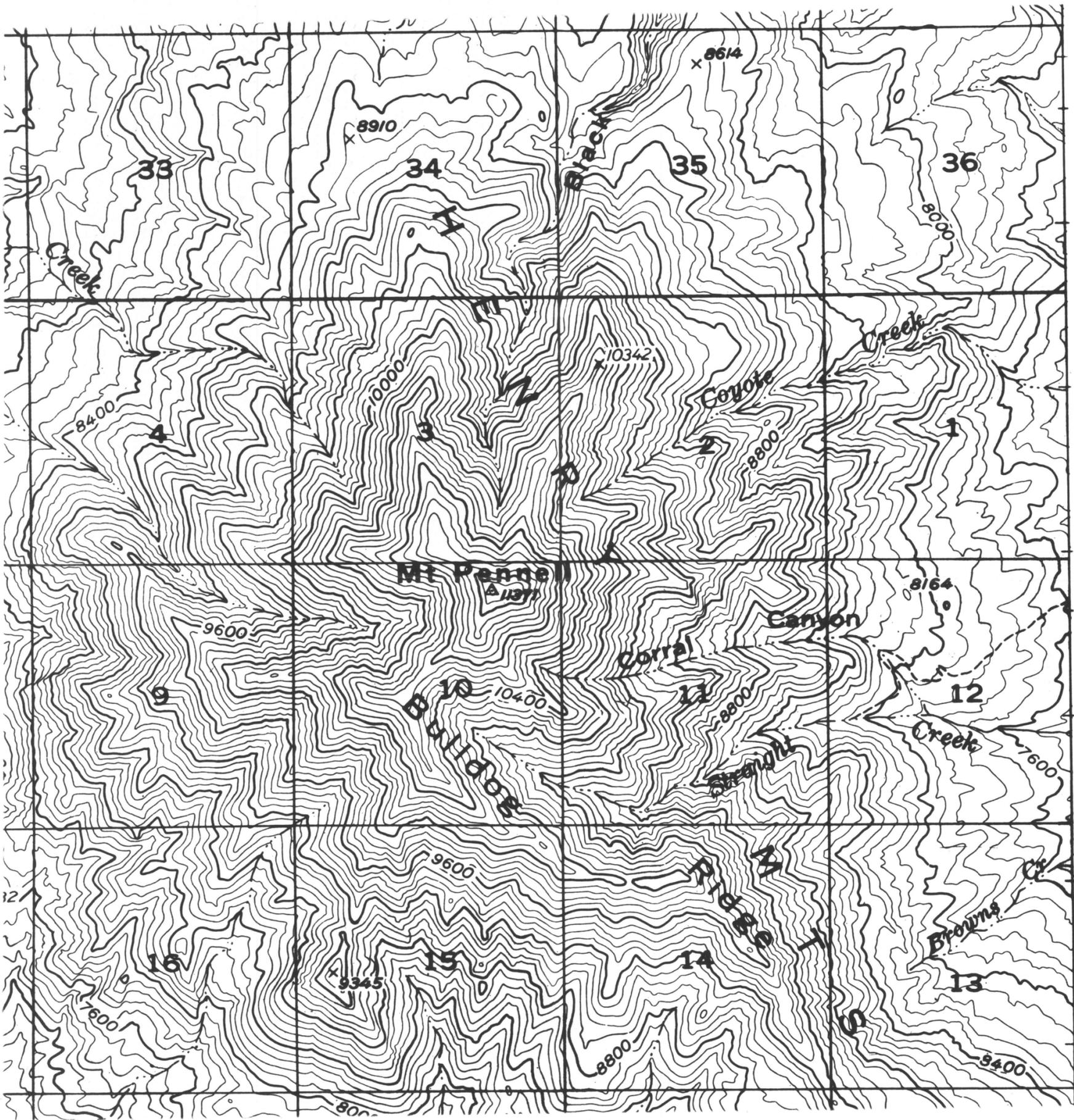
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MT. PENNELL PROSPECT

Bromide BASIN &  
MT. PENNELL  
So. UTAH



MT. PENNELL GROUP  
KAY HUNT  
HAMAVILLE, UTAH



1:24000  
1" = 2000'