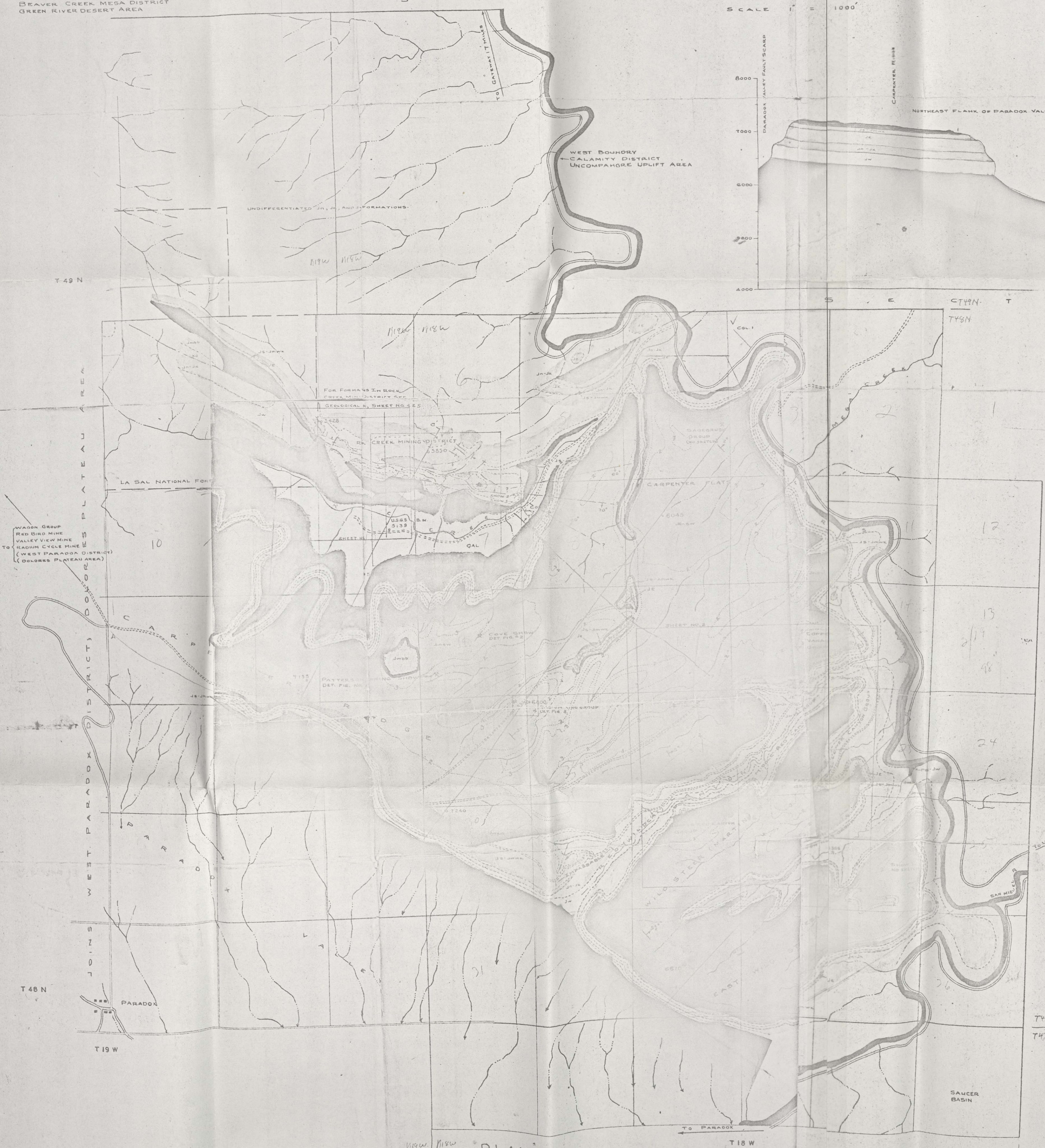
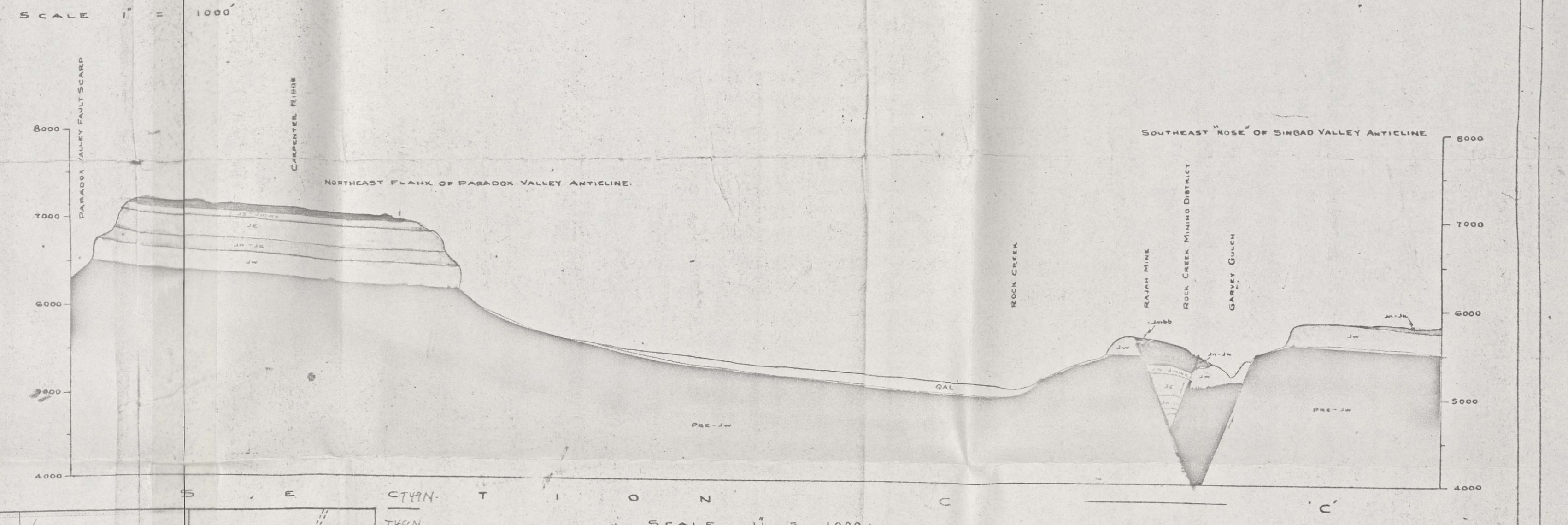
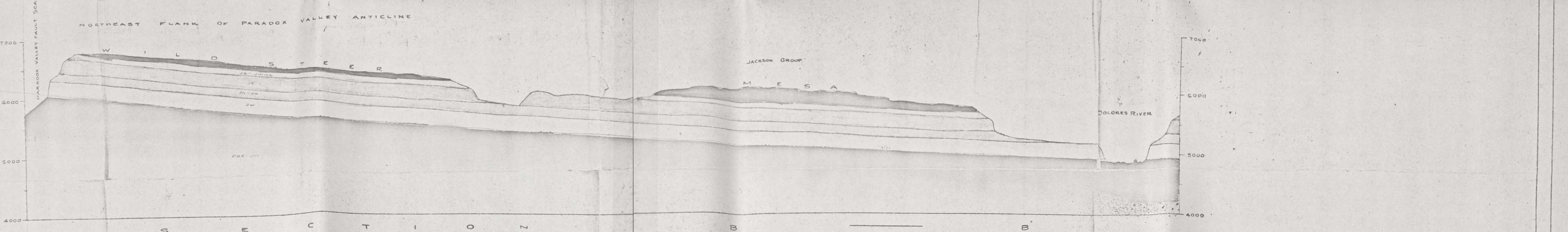
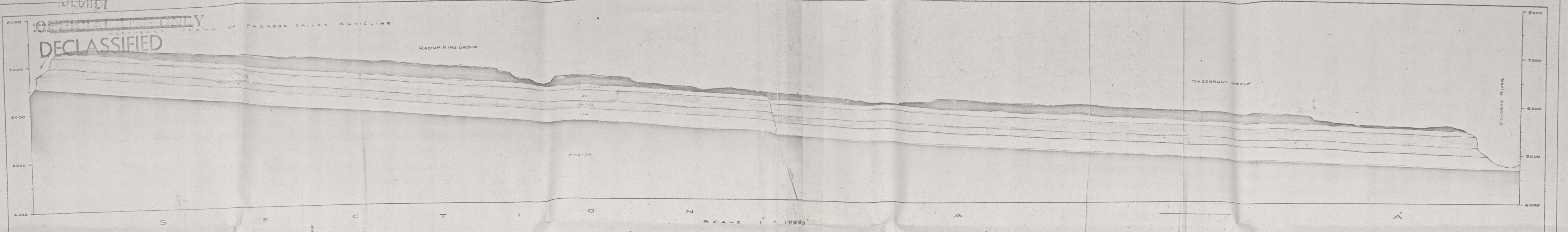


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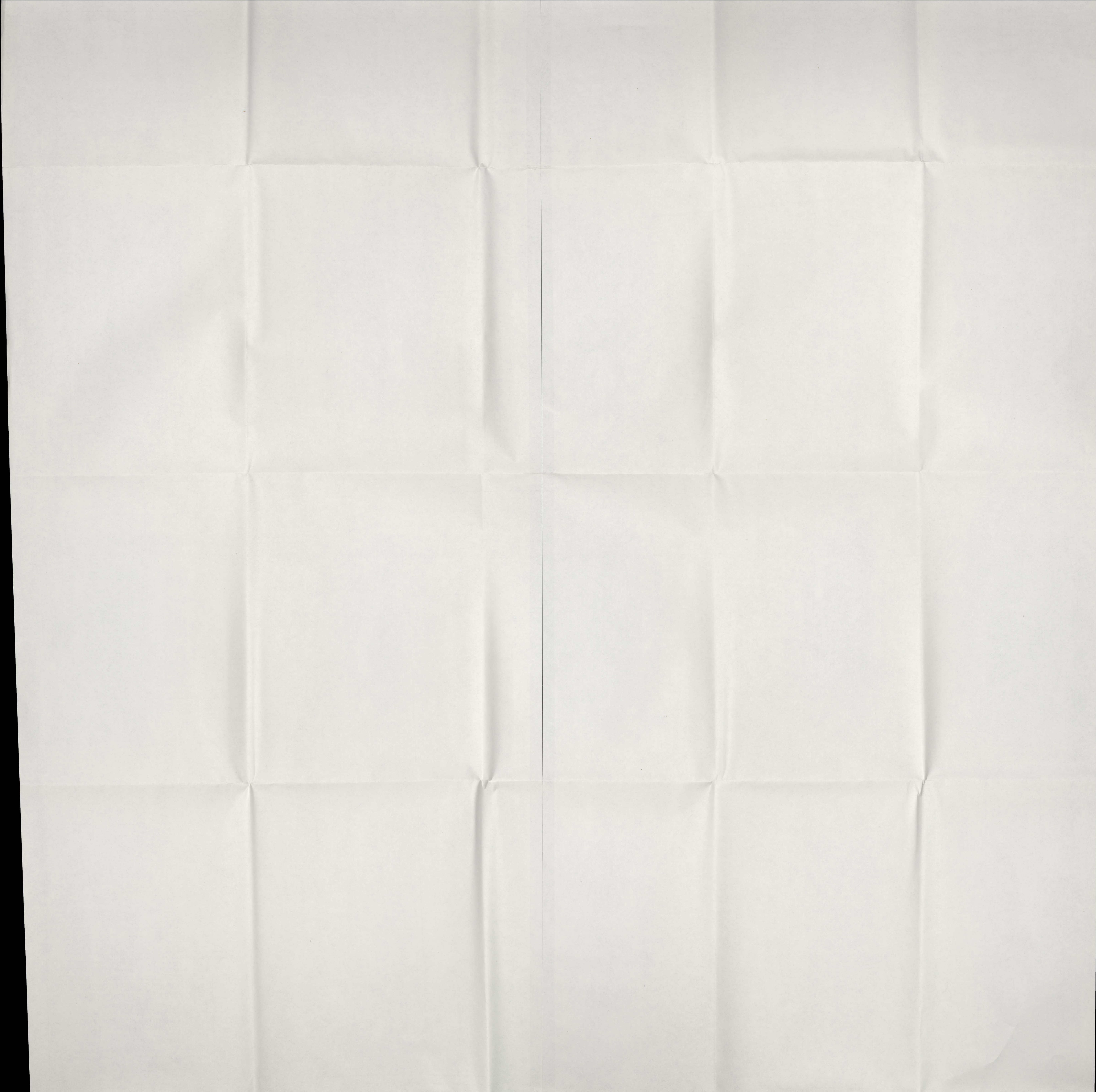
EXPLANATION

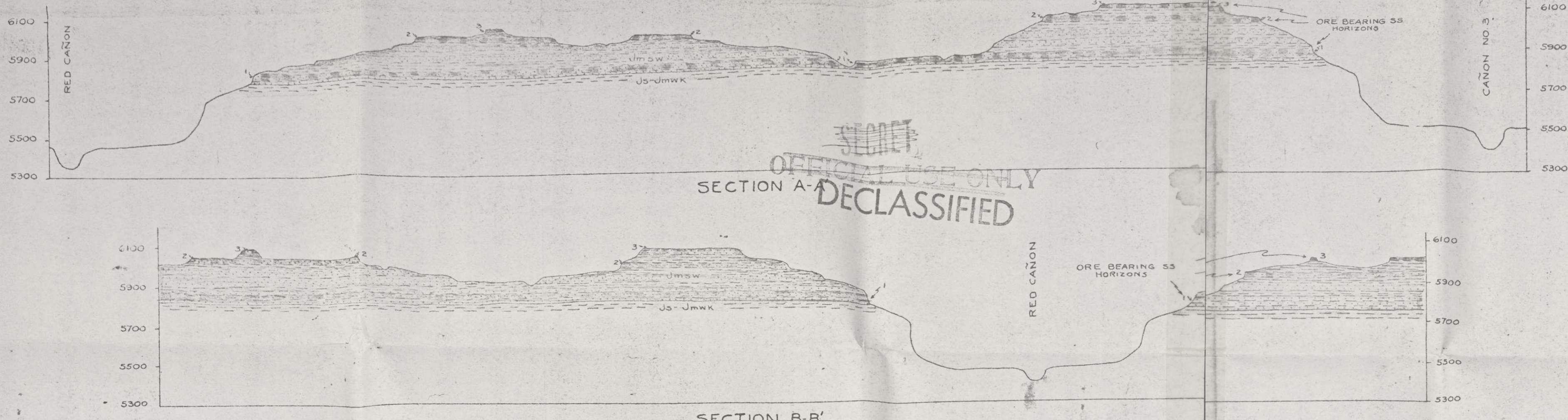
- QUATERNARY [Symbol] ALLUVIUM
- CRETACEOUS [Symbol] DAKOTA SANDSTONE
- [Symbol] BRUSHY BASIN MEMBER OF MORRISON FORMATION
- [Symbol] SALT WASH MEMBER OF MORRISON FORMATION
- JURASSIC [Symbol] MORRISON MEMBER OF MORRISON FORMATION AND THE SUMMERVILLE FORMATION UNDIFFERENTIATED
- [Symbol] SUTCLIFF FORMATION
- [Symbol] NAVALJO AND KAYENTA FORMATIONS UNDIFFERENTIATED
- [Symbol] WINGATE FORMATION
- PRE-JURASSIC [Symbol] PRE-WINGATE FORMATIONS
- [Symbol] APPROXIMATE OUTLINE OF THE 1ST, 2ND AND 3RD SANDSTONE RIMS 2ND RIM IS TO ABOVE BASE OF JMSW 3RD - 150-210'
- [Symbol] FORMATIONAL CONTACT
- [Symbol] STREAM
- [Symbol] INTERMITTENT STREAM
- [Symbol] NORMAL FAULT SHOWING DOWNTHROWN SIDE
- [Symbol] VERTICAL FAULT
- [Symbol] STRIKE AND DIP OF BED
- [Symbol] URANIUM MINE OR PROSPECT
- [Symbol] MAINTAINED DIRT OR GRAVEL ROAD
- [Symbol] UNMAINTAINED DIRT OR GRAVEL ROAD
- [Symbol] BRIDGE
- [Symbol] BUILDING
- [Symbol] ELEVATION ABOVE SEA LEVEL

PLAN  
SCALE 1" = 2640'

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UNION MINES DEVELOPMENT CORP.  
GRAND JUNCTION, COLO.  
FIELD OFFICE  
TITLE: CARPENTER RIDGE DISTRICT  
DOLORES PLATEAU AREA  
AREAL MAP  
SCALE: AS SHOWN DATE: DECEMBER, 1944  
DRAWN BY: W. GRUENERTWALD, G. MILLER, G. RICHARDSON, WALLS.  
TRACED BY: G. RICHARDSON & R. WALLS  
GEOLOGY BY: GRUENERTWALD, MILLER, RICHARDSON, WALLS.  
Colo - dp - 78

SECRET

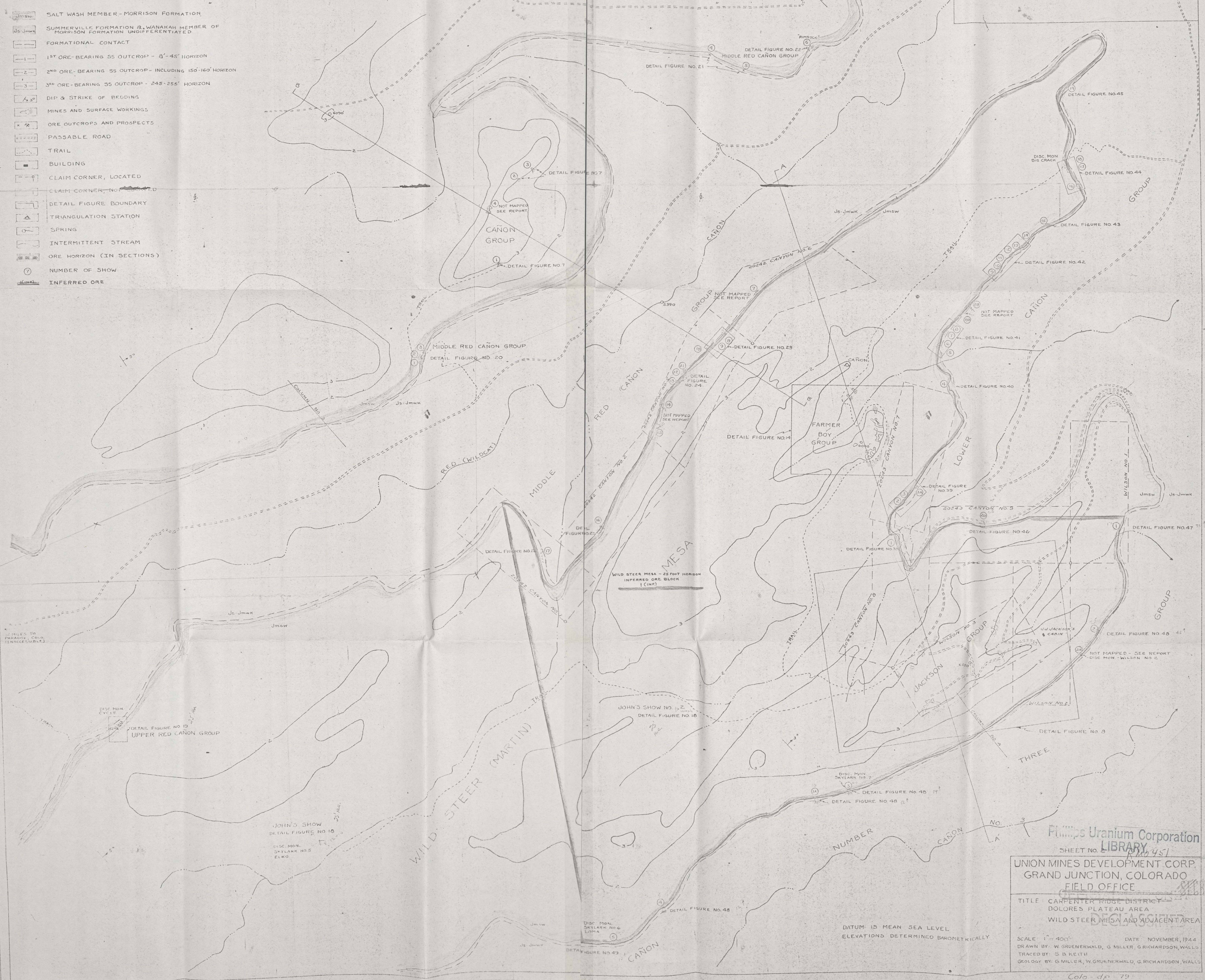




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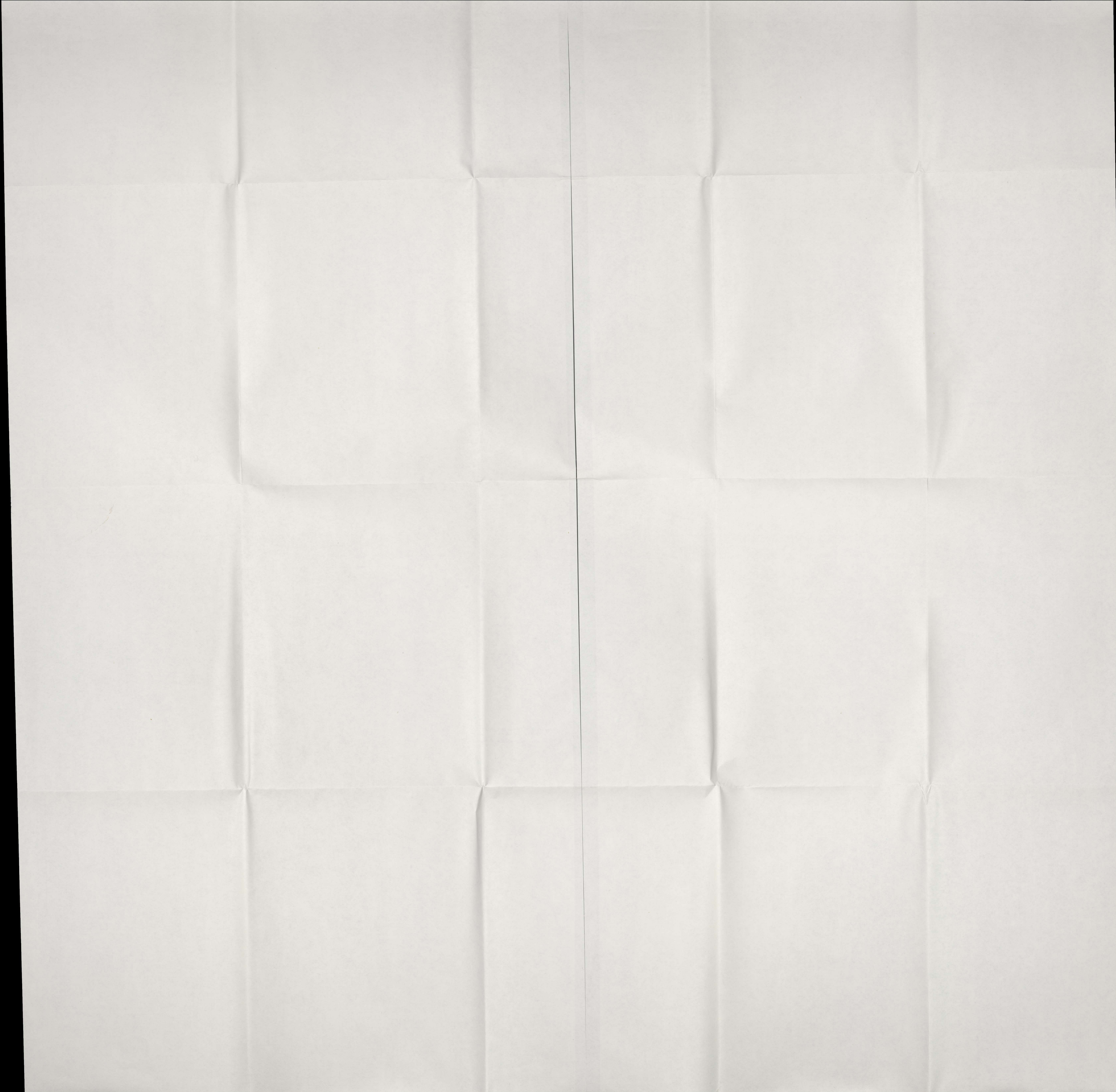
LEGEND

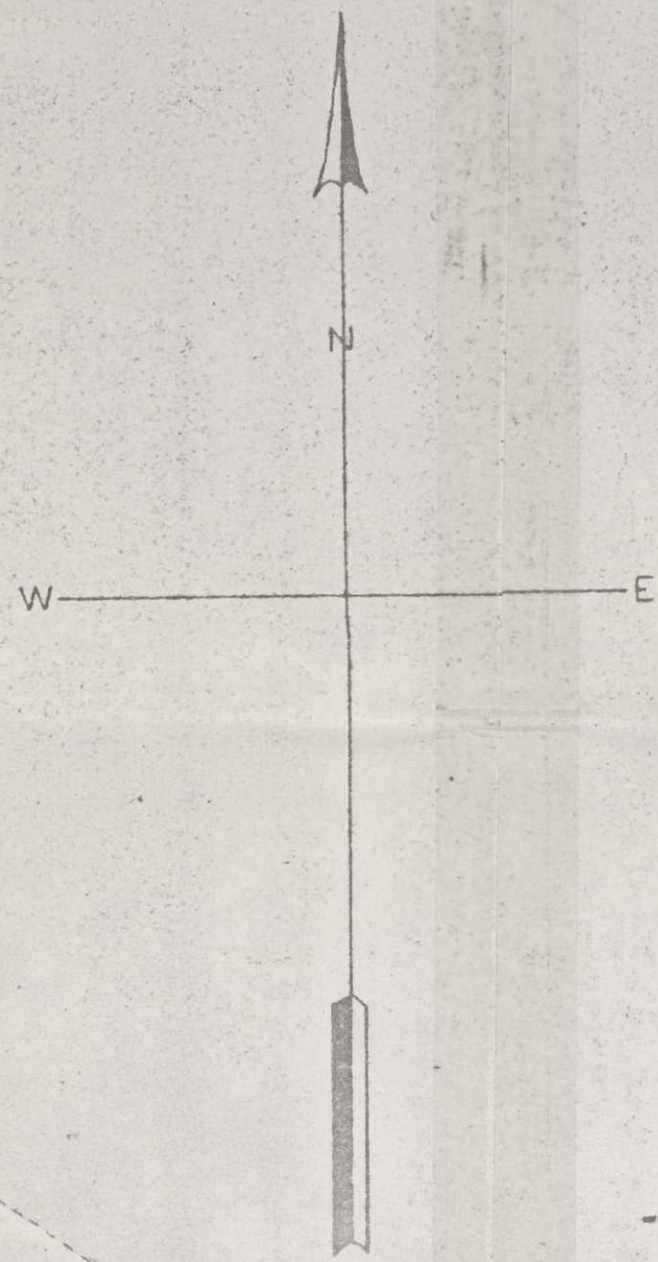
- SALT WASH MEMBER - MORRISON FORMATION
- SUMMERVILLE FORMATION & WANAKAH MEMBER OF MORRISON FORMATION UNDIFFERENTIATED
- FORMATIONAL CONTACT
- 1<sup>ST</sup> ORE-BEARING SS OUTCROP - 8'-45' HORIZON
- 2<sup>ND</sup> ORE-BEARING SS OUTCROP - INCLUDING 15'-160' HORIZON
- 3<sup>RD</sup> ORE-BEARING SS OUTCROP - 245'-255' HORIZON
- DIP & STRIKE OF BEDDING
- MINES AND SURFACE WORKINGS
- ORE OUTCROPS AND PROSPECTS
- PASSABLE ROAD
- TRAIL
- BUILDING
- CLAIM CORNER, LOCATED
- CLAIM CORNER, NOT LOCATED
- DETAIL FIGURE BOUNDARY
- TRIANGULATION STATION
- SPRING
- INTERMITTENT STREAM
- ORE HORIZON (IN SECTIONS)
- NUMBER OF SHOW
- INFERRED ORE



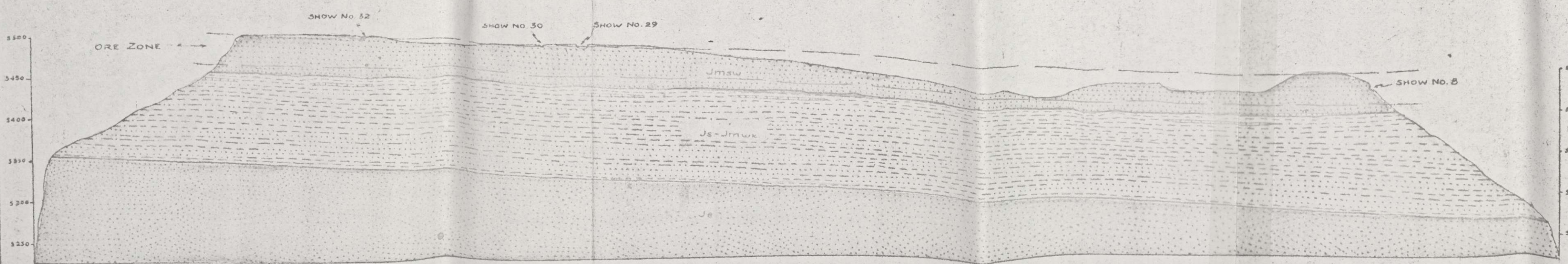
DATUM IS MEAN SEA LEVEL  
ELEVATIONS DETERMINED BAROMETRICALLY

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UNION MINES DEVELOPMENT CORP.  
GRAND JUNCTION, COLORADO  
FIELD OFFICE  
TITLE: CARPENTER RIDGE DISTRICT  
DOLORES PLATEAU AREA  
WILD STEER MESA AND ADJACENT AREA  
SCALE: 1" = 400' DATE: NOVEMBER, 1944  
DRAWN BY: W. GRUENBERG, G. MILLER, G. RICHARDSON, WALLS  
TRACED BY: S. B. KEITH  
GEOLOGY BY: G. MILLER, W. GRUENBERG, G. RICHARDSON, WALLS  
Colo. dr. 79





SURFACE PLAN  
SCALE 1" = 100'



SECTION A-A  
SCALE 1" = 100'

EXPLANATION

Jmsw	SALT WASH MEMBER OF MORRISON FORMATION
Jw	WANAKAH MEMBER OF MORRISON FORMATION AND THE SUMMERVILLE FORMATION UNDIFFERENTIATED
JE	ENTRADA FORMATION

SH. 1 - SHOW 1  
 (Inf.) - INFERRED ORE  
 SEE DETAIL FIGURE NO. 1 FOR ADDITIONAL SYMBOLS  
 CONTOUR INTERVAL 10 FEET

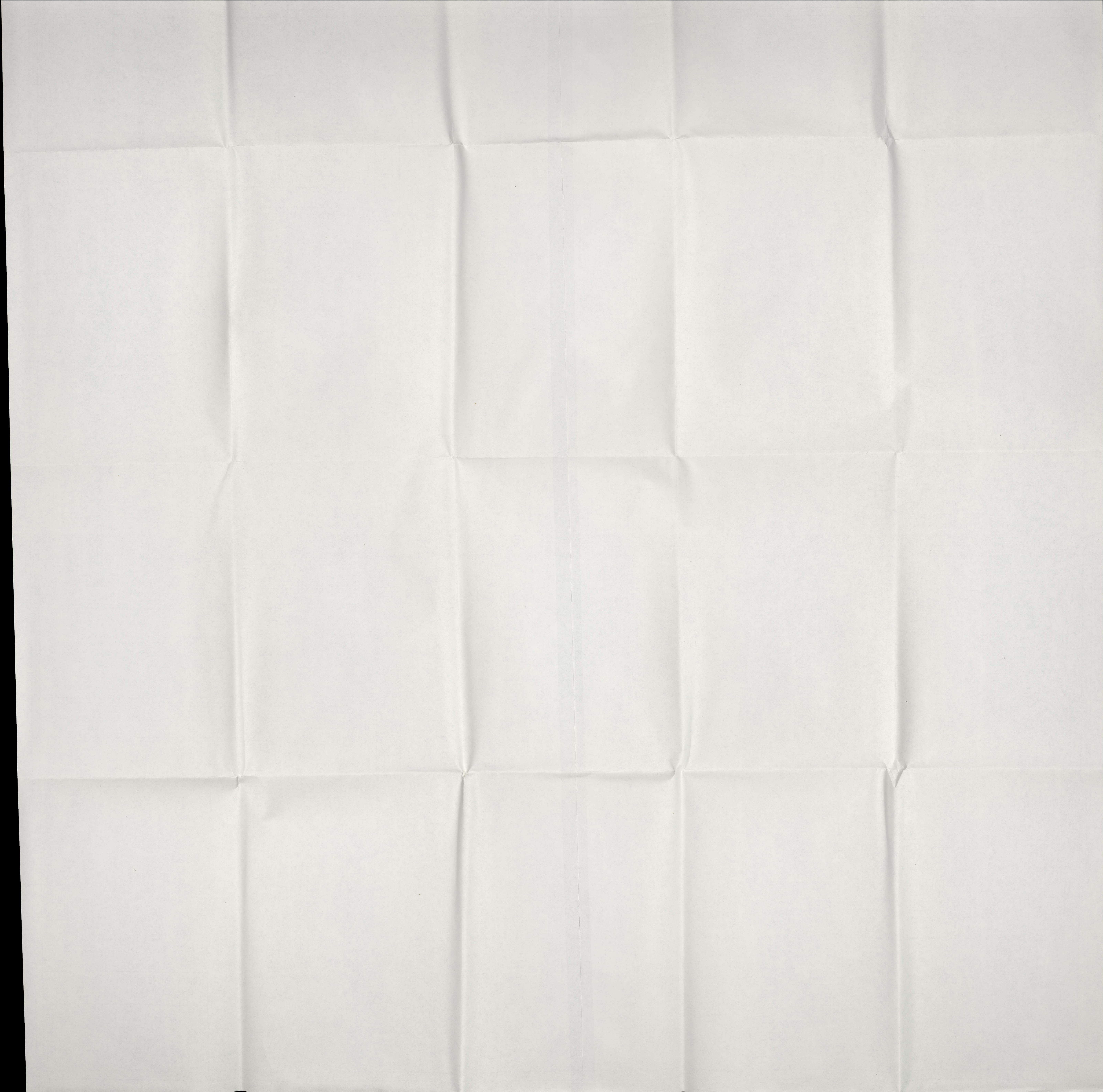
DETAIL COLUMN 1  
SCALE 1" = 20'

ORE ZONE	SECTION SURFACE	SANDSTONE, VERY GRAINAL SURF, GRAY, VERY WEATHERED, CRACK-BRICKED, SPLIT, GRAIN FINE TO MEDIUM FINE, ROUNDED TO SUB-ROUNDED, POORLY SORTED, VERY POROUS, LOOSELY COMPACTED, QUITE POROUS, TENDS TO BE LIGHTER IN COLOR, GRAINAL AND VERY FINE GRAINAL ORES, ONE SHOW NUMBER 31 IS LOCATED AT TOP OF SHOW, ONE SHOW NUMBER 32 IS AT TOP OF SHOW, AND 1 OF SHOW NO. 33 IS AT TOP OF SHOW, SANDSTONE CONTAINS A FAIR AMOUNT OF CALCAREOUS MATERIAL AND ABOUT A SMALL AMOUNT OF ORE (YELLOW COPPER VANADATE) (LATERAL GRAIN) (PRESENT) (MINERALIZATION) (POOR) (EXPOSED) (BECAUSE OF TAIL)
MORRISON FORMATION	31	SANDSTONE, CLAY, GRAY, CRACK-BRICKED, MED. HARD, GRAIN FINE, ROUNDED TO SUB-ROUNDED, WELL SORTED, STRONGLY FRIABLE, WELL CEMENTED, FAIRLY POROUS, MEDIUM FINE GRAINAL SURF, GRAY, AND WEATHERED, CRACK-BRICKED, SPLIT, GRAIN FINE TO MEDIUM FINE, ROUNDED TO SUB-ROUNDED, POORLY SORTED, VERY POROUS, LOOSELY COMPACTED, QUITE POROUS, TENDS TO BE LIGHTER IN COLOR, GRAINAL AND VERY FINE GRAINAL ORES, ONE SHOW NUMBER 31 IS LOCATED AT TOP OF SHOW, ONE SHOW NUMBER 32 IS AT TOP OF SHOW, AND 1 OF SHOW NO. 33 IS AT TOP OF SHOW, SANDSTONE CONTAINS A FAIR AMOUNT OF CALCAREOUS MATERIAL AND ABOUT A SMALL AMOUNT OF ORE (YELLOW COPPER VANADATE) (LATERAL GRAIN) (PRESENT) (MINERALIZATION) (POOR) (EXPOSED) (BECAUSE OF TAIL)
SUMMERVILLE FORMATION	32	SANDSTONE, CLAY, GRAY, CRACK-BRICKED, MED. HARD, GRAIN FINE, ROUNDED TO SUB-ROUNDED, WELL SORTED, STRONGLY FRIABLE, WELL CEMENTED, FAIRLY POROUS, MEDIUM FINE GRAINAL SURF, GRAY, AND WEATHERED, CRACK-BRICKED, SPLIT, GRAIN FINE TO MEDIUM FINE, ROUNDED TO SUB-ROUNDED, POORLY SORTED, VERY POROUS, LOOSELY COMPACTED, QUITE POROUS, TENDS TO BE LIGHTER IN COLOR, GRAINAL AND VERY FINE GRAINAL ORES, ONE SHOW NUMBER 31 IS LOCATED AT TOP OF SHOW, ONE SHOW NUMBER 32 IS AT TOP OF SHOW, AND 1 OF SHOW NO. 33 IS AT TOP OF SHOW, SANDSTONE CONTAINS A FAIR AMOUNT OF CALCAREOUS MATERIAL AND ABOUT A SMALL AMOUNT OF ORE (YELLOW COPPER VANADATE) (LATERAL GRAIN) (PRESENT) (MINERALIZATION) (POOR) (EXPOSED) (BECAUSE OF TAIL)
ENTRADA FORMATION	33	SANDSTONE, CLAY, GRAY, CRACK-BRICKED, MED. HARD, GRAIN FINE, ROUNDED TO SUB-ROUNDED, WELL SORTED, STRONGLY FRIABLE, WELL CEMENTED, FAIRLY POROUS, MEDIUM FINE GRAINAL SURF, GRAY, AND WEATHERED, CRACK-BRICKED, SPLIT, GRAIN FINE TO MEDIUM FINE, ROUNDED TO SUB-ROUNDED, POORLY SORTED, VERY POROUS, LOOSELY COMPACTED, QUITE POROUS, TENDS TO BE LIGHTER IN COLOR, GRAINAL AND VERY FINE GRAINAL ORES, ONE SHOW NUMBER 31 IS LOCATED AT TOP OF SHOW, ONE SHOW NUMBER 32 IS AT TOP OF SHOW, AND 1 OF SHOW NO. 33 IS AT TOP OF SHOW, SANDSTONE CONTAINS A FAIR AMOUNT OF CALCAREOUS MATERIAL AND ABOUT A SMALL AMOUNT OF ORE (YELLOW COPPER VANADATE) (LATERAL GRAIN) (PRESENT) (MINERALIZATION) (POOR) (EXPOSED) (BECAUSE OF TAIL)

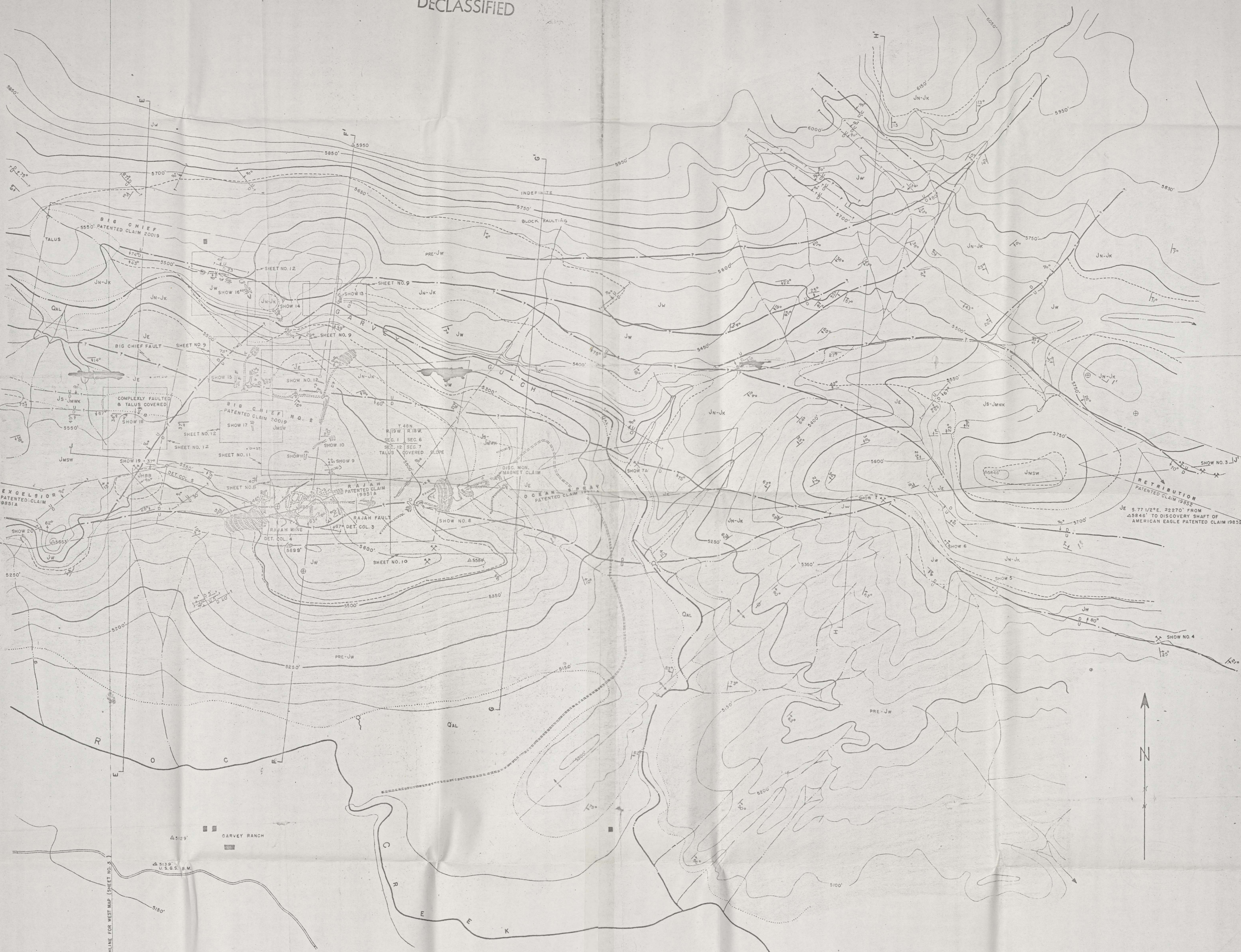
DETAIL COLUMN 2  
SCALE 1" = 20'

ORE ZONE	34	SANDSTONE, CLAY, GRAY, CRACK-BRICKED, MED. HARD, GRAIN FINE, ROUNDED TO SUB-ROUNDED, WELL SORTED, STRONGLY FRIABLE, WELL CEMENTED, FAIRLY POROUS, MEDIUM FINE GRAINAL SURF, GRAY, AND WEATHERED, CRACK-BRICKED, SPLIT, GRAIN FINE TO MEDIUM FINE, ROUNDED TO SUB-ROUNDED, POORLY SORTED, VERY POROUS, LOOSELY COMPACTED, QUITE POROUS, TENDS TO BE LIGHTER IN COLOR, GRAINAL AND VERY FINE GRAINAL ORES, ONE SHOW NUMBER 31 IS LOCATED AT TOP OF SHOW, ONE SHOW NUMBER 32 IS AT TOP OF SHOW, AND 1 OF SHOW NO. 33 IS AT TOP OF SHOW, SANDSTONE CONTAINS A FAIR AMOUNT OF CALCAREOUS MATERIAL AND ABOUT A SMALL AMOUNT OF ORE (YELLOW COPPER VANADATE) (LATERAL GRAIN) (PRESENT) (MINERALIZATION) (POOR) (EXPOSED) (BECAUSE OF TAIL)
MORRISON FORMATION	35	SANDSTONE, CLAY, GRAY, CRACK-BRICKED, MED. HARD, GRAIN FINE, ROUNDED TO SUB-ROUNDED, WELL SORTED, STRONGLY FRIABLE, WELL CEMENTED, FAIRLY POROUS, MEDIUM FINE GRAINAL SURF, GRAY, AND WEATHERED, CRACK-BRICKED, SPLIT, GRAIN FINE TO MEDIUM FINE, ROUNDED TO SUB-ROUNDED, POORLY SORTED, VERY POROUS, LOOSELY COMPACTED, QUITE POROUS, TENDS TO BE LIGHTER IN COLOR, GRAINAL AND VERY FINE GRAINAL ORES, ONE SHOW NUMBER 31 IS LOCATED AT TOP OF SHOW, ONE SHOW NUMBER 32 IS AT TOP OF SHOW, AND 1 OF SHOW NO. 33 IS AT TOP OF SHOW, SANDSTONE CONTAINS A FAIR AMOUNT OF CALCAREOUS MATERIAL AND ABOUT A SMALL AMOUNT OF ORE (YELLOW COPPER VANADATE) (LATERAL GRAIN) (PRESENT) (MINERALIZATION) (POOR) (EXPOSED) (BECAUSE OF TAIL)
SUMMERVILLE FORMATION	36	SANDSTONE, CLAY, GRAY, CRACK-BRICKED, MED. HARD, GRAIN FINE, ROUNDED TO SUB-ROUNDED, WELL SORTED, STRONGLY FRIABLE, WELL CEMENTED, FAIRLY POROUS, MEDIUM FINE GRAINAL SURF, GRAY, AND WEATHERED, CRACK-BRICKED, SPLIT, GRAIN FINE TO MEDIUM FINE, ROUNDED TO SUB-ROUNDED, POORLY SORTED, VERY POROUS, LOOSELY COMPACTED, QUITE POROUS, TENDS TO BE LIGHTER IN COLOR, GRAINAL AND VERY FINE GRAINAL ORES, ONE SHOW NUMBER 31 IS LOCATED AT TOP OF SHOW, ONE SHOW NUMBER 32 IS AT TOP OF SHOW, AND 1 OF SHOW NO. 33 IS AT TOP OF SHOW, SANDSTONE CONTAINS A FAIR AMOUNT OF CALCAREOUS MATERIAL AND ABOUT A SMALL AMOUNT OF ORE (YELLOW COPPER VANADATE) (LATERAL GRAIN) (PRESENT) (MINERALIZATION) (POOR) (EXPOSED) (BECAUSE OF TAIL)
ENTRADA FORMATION	37	SANDSTONE, CLAY, GRAY, CRACK-BRICKED, MED. HARD, GRAIN FINE, ROUNDED TO SUB-ROUNDED, WELL SORTED, STRONGLY FRIABLE, WELL CEMENTED, FAIRLY POROUS, MEDIUM FINE GRAINAL SURF, GRAY, AND WEATHERED, CRACK-BRICKED, SPLIT, GRAIN FINE TO MEDIUM FINE, ROUNDED TO SUB-ROUNDED, POORLY SORTED, VERY POROUS, LOOSELY COMPACTED, QUITE POROUS, TENDS TO BE LIGHTER IN COLOR, GRAINAL AND VERY FINE GRAINAL ORES, ONE SHOW NUMBER 31 IS LOCATED AT TOP OF SHOW, ONE SHOW NUMBER 32 IS AT TOP OF SHOW, AND 1 OF SHOW NO. 33 IS AT TOP OF SHOW, SANDSTONE CONTAINS A FAIR AMOUNT OF CALCAREOUS MATERIAL AND ABOUT A SMALL AMOUNT OF ORE (YELLOW COPPER VANADATE) (LATERAL GRAIN) (PRESENT) (MINERALIZATION) (POOR) (EXPOSED) (BECAUSE OF TAIL)

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 CARPENTER RIDGE DISTRICT  
 DOLORES PLATEAU AREA  
 COPPER - VANADIUM GROUP  
 SCALE: AS SHOWN  
 TRACED BY: R. WALLS  
 DRAWN BY: R. WALLS  
 GEOLOGY OR NOTES BY: W. GRUENHARDT, C. MILLER, G. RICHARDSON, R. WALLS  
 NOVEMBER 1951  
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- |        |  |
|--------|--|
| QAL    | ALLUVIUM   |
| JWB    | BRUSHY BASIN MEMBER  |
| JWS    | SALTWASH MEMBER  |
| JW     | UNDIFFERENTIATED WANAKAH MEMBER OF THE MORRISON FM.<br>B. SUMMERVILLE FORMATION. |
| JE     | ENTRADA FORMATION  |
| JN-JK  | UNDIFFERENTIATED NAVAJO & KAYENTA FORMATIONS                                     |
| JW     | WINGATE FORMATION  |
| PRE-JW | CHINLE FORMATION & OLDER   |
| ---    | CONTACT, EXPOSED   |
| ---    | CONTACT, OBSCURED  |
| ---    | MAJOR FAULT, EXPOSED   |
| ---    | MAJOR FAULT, OBSCURED  |
| ---    | OVERTHRUST FAULT, SHOWING OVERTHRUST SIDE  |
- DATUM IS MEAN SEA LEVEL.  
ELEVATION DETERMINED BY VERTICAL ANGLES TO U.S.G.S. B.M.

- |     |  |
|-----|--|
| --- | MINOR FAULT, SHOWING AMOUNT OF VERTICAL DISPLACEMENT |
| --- | FAULT INTERSECTION, EXPOSED                          |
| --- | FAULT INTERSECTION, OBSCURED                         |
| --- | DIP & STRIKE OF BEDDING                              |
| --- | VERTICAL DIP & STRIKE OF BEDDING                     |
| --- | HORIZONTAL DIP & STRIKE OF BEDDING                   |
| --- | SYNCLINAL AXIS, SHOWING DIRECTION OF PLUNGE          |
| --- | ANTICLINAL AXIS                                      |
| --- | UNMAPPED PROSPECT                                    |
| --- | SURFACE WORKING & DUMP                               |
| --- | UNDERGROUND WORKING                                  |
| --- | SHAFT, RAISE, OR WINZE                               |

- |     |                                  |
|-----|----------------------------------|
| --- | ROAD, IMPASSABLE                 |
| --- | TRAIL                            |
| --- | BUILDING                         |
| --- | SECTION CORNER, LOCATED          |
| --- | CLAIM CORNER, LOCATED            |
| --- | CLAIM CORNER, NOT LOCATED        |
| --- | TRIANGULATION STATION            |
| --- | DRILL HOLE, WITH LOCATION NUMBER |
| --- | DETAIL FIGURE BOUNDARY           |
| --- | SPRING                           |
| --- | INTERMITTENT STREAM              |
| --- | FLOWING STREAM                   |

NOTE: SEE SHEETS NO. 6 & 7 FOR SECTIONS

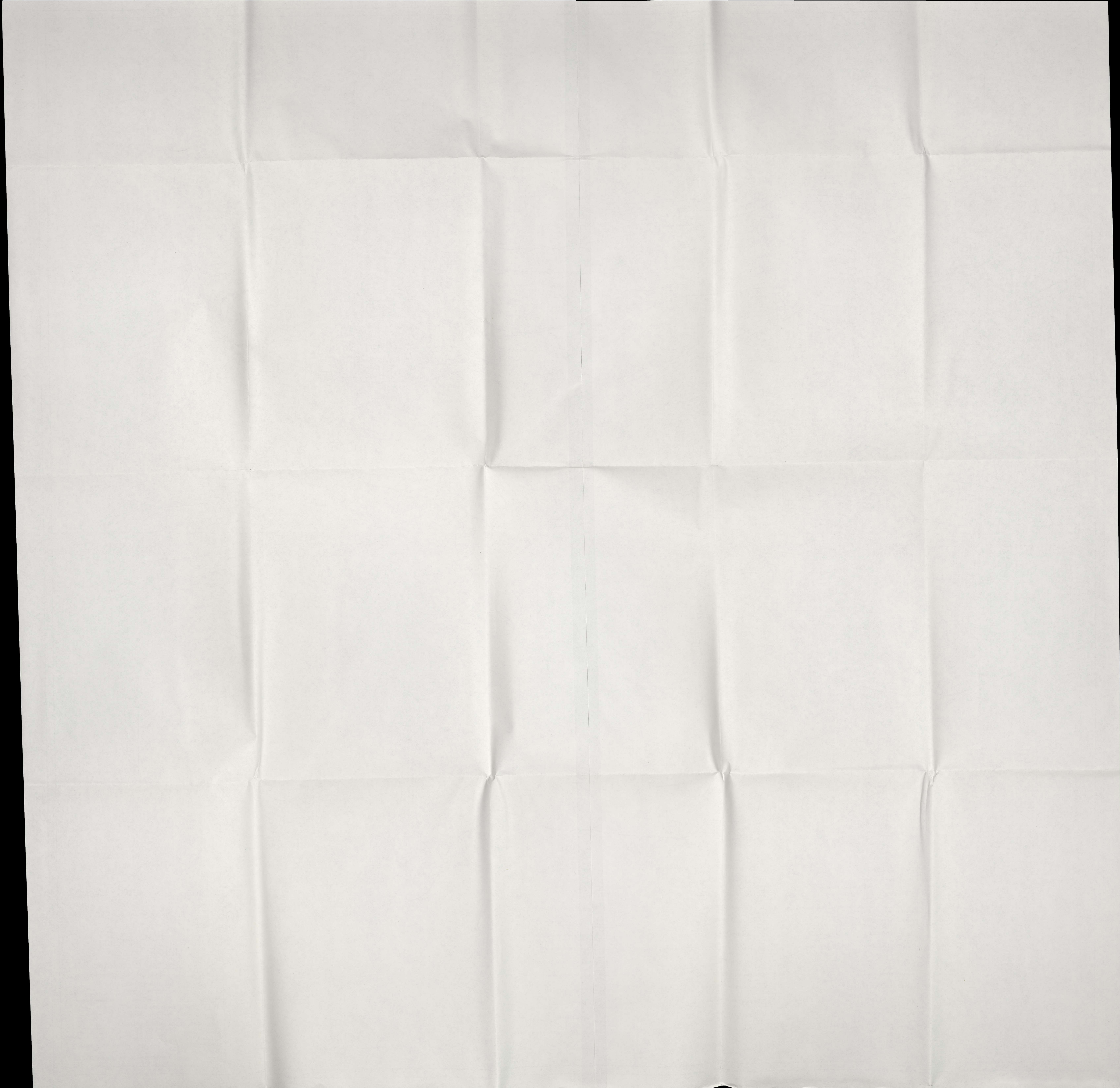
GEOLOGICAL & TOPOGRAPHICAL MAP  
OF THE  
ROC CREEK MINING DISTRICT  
EAST MAP

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UNION MINES DEVELOPMENT CORPORATION  
GRAND JUNCTION, COLO.  
FIELD OFFICE

TITLE: CARPENTER RIDGE DISTRICT  
DOLORES PLATEAU AREA  
ROC CREEK MINING DISTRICT  
SCALE 1" = 200'  
CONTOUR INTERVAL, 50'  
DRAWN BY: GRUENBERG, G. MILLER, G. RICHARDSON, R. WALLS  
TRACED: G. MILLER  
GEOLOGY: G. MILLER, G. RICHARDSON, W. GRUENBERG, R. WALLS  
DATE: OCTOBER, 1964  
DECLASSIFIED

Geo-dp-91





DECLASSIFIED



- QAL ALLUVIUM
  - JNSW SALTWASH MEMBER OF MORRISON FORMATION
  - JS-JMWK UNDIFFERENTIATED WANAKAM MEMBER OF MORRISON FORMATION & SUMMERVILLE FORMATION
  - JE ENTRADA FORMATION
  - JN-JK UNDIFFERENTIATED NAVAJO & KAYENTA FORMATIONS
  - JW WINGATE FORMATION
  - PRE-JW CHINLE & OLDER FORMATIONS
  - CONTACT, EXPOSED
  - CONTACT, OBSCURED
  - MAJOR FAULT, OBSCURED
  - MAJOR FAULT, EXPOSED
  - MINOR FAULT, SHOWING AMOUNT OF VERTICAL DISPLACEMENT
  - FAULT INTERSECTION, OBSCURED
  - DIP & STRIKE OF BEDDING
  - UNMAPPED PROSPECT
  - SURFACE & UNDERGROUND WORKING, AND DUMP
  - ROAD, PASSABLE
  - SECTION CORNER, LOCATED
  - CLAIM CORNER, LOCATED
  - CLAIM CORNER, NOT LOCATED
  - DETAIL FIGURE BOUNDARY
  - TRIANGULATION STATION
  - INTERMITTENT STREAM
  - FLOWING STREAM
- DATUM PLANE IS MEAN SEA LEVEL  
ELEVATION DETERMINED BY VERTICAL ANGLES TO U. S. G. S. B. M.
- NOTE: SEE SHEETS NO. 6 & 7 FOR SECTIONS.

GEOLOGICAL & TOPOGRAPHICAL MAP  
OF THE  
ROC CREEK MINING DISTRICT  
WEST MAP

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UNION MINES DEVELOPMENT CORPORATION  
GRAND JUNCTION, COLO.  
FIELD OFFICE

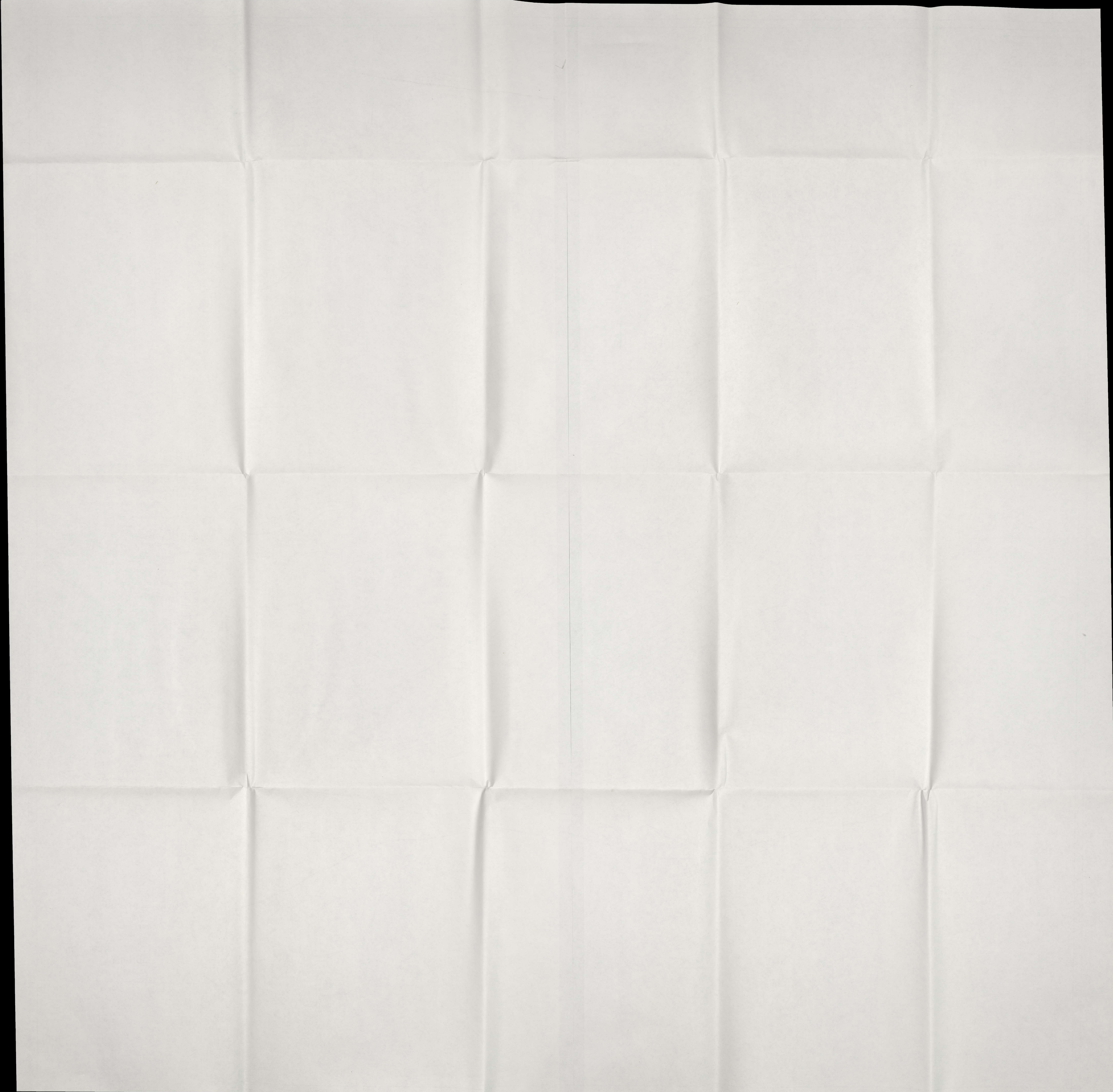
TITLE: CARPENTER RIDGE DISTRICT  
DOLORES PLATEAU AREA  
ROC CREEK MINING DISTRICT  
SCALE: 1" = 200'  
CONTOUR INTERVAL: 50'  
DRAWN BY: GRUENBERG, G. MILLER, G. RICHARDSON, R. WALLS  
TRACED: G. MILLER  
GEOLOGY: G. MILLER, G. RICHARDSON, W. GRUENBERG, R. WALLS

DECLASSIFIED  
DATE: OCTOBER 1984

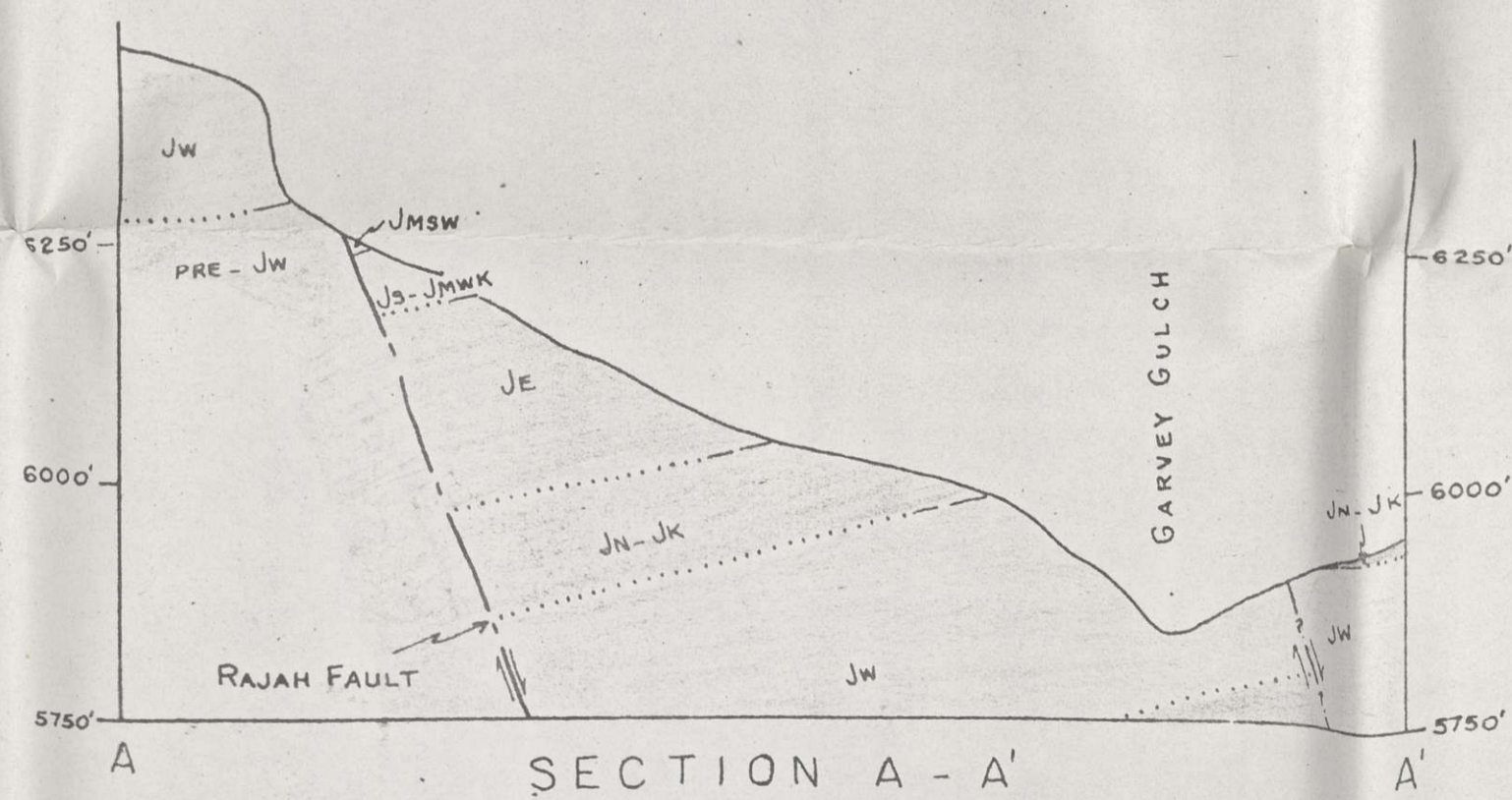
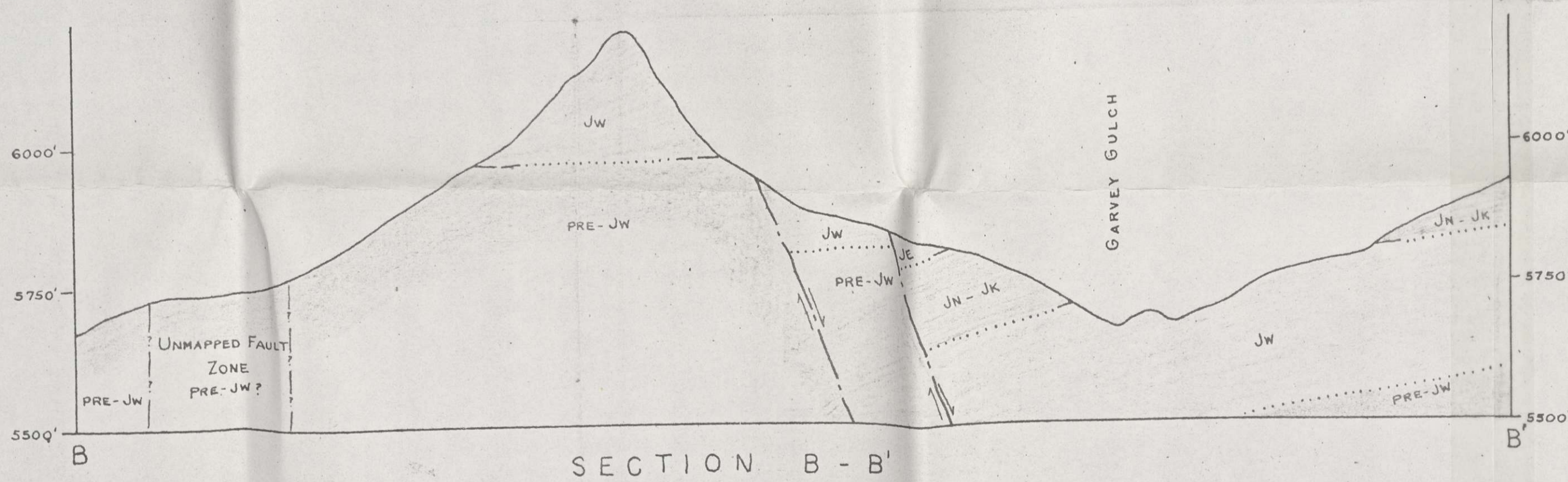
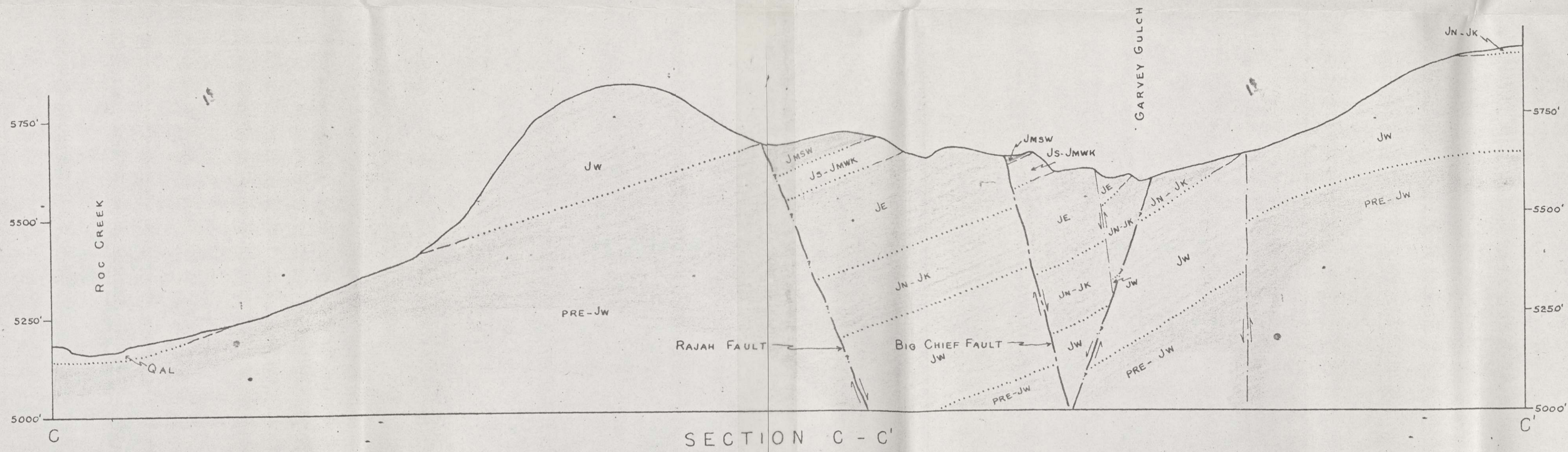
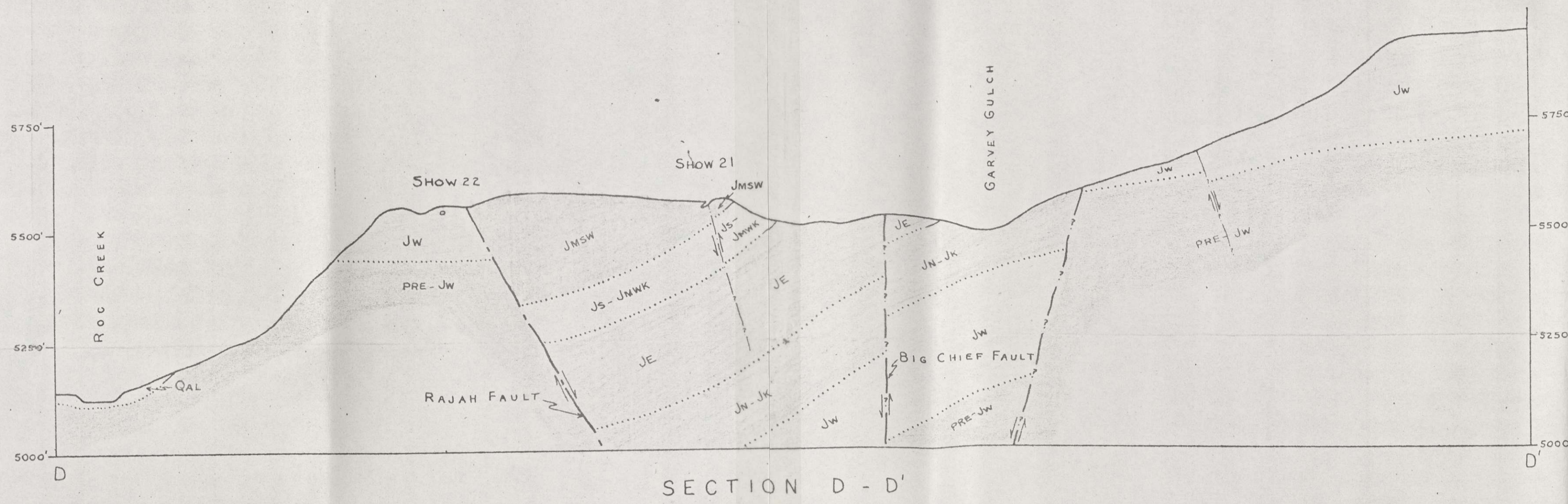
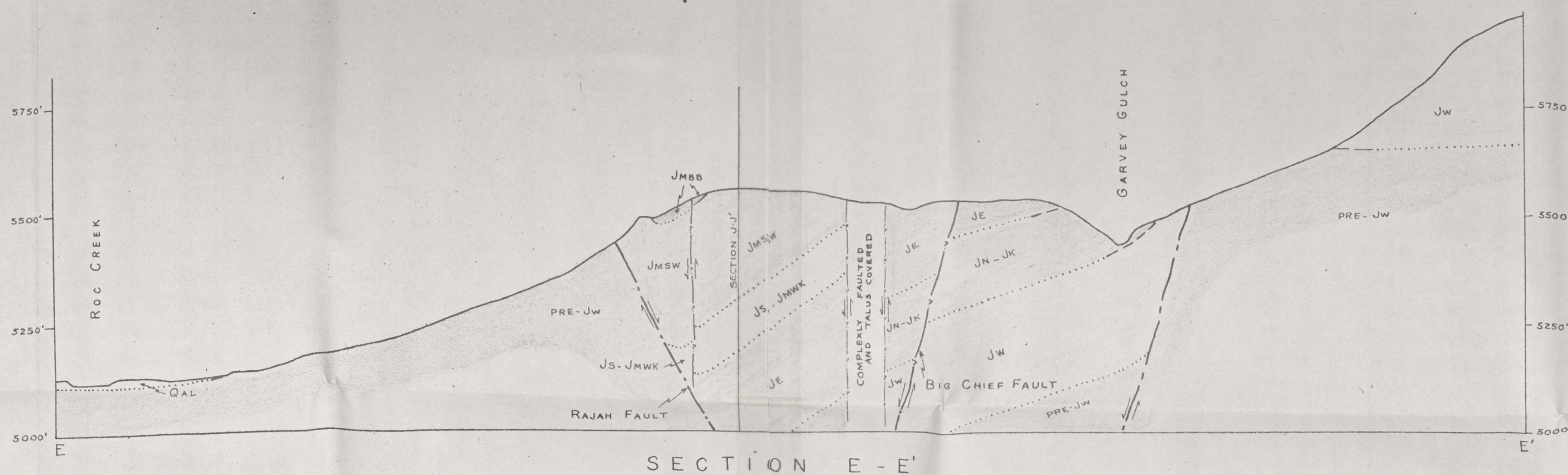
CARPENTER RIDGE DISTRICT  
DOLORES PLATEAU AREA  
ROC CREEK MINING DISTRICT  
WEST MAP

Colo-dp-82

L. J. G.



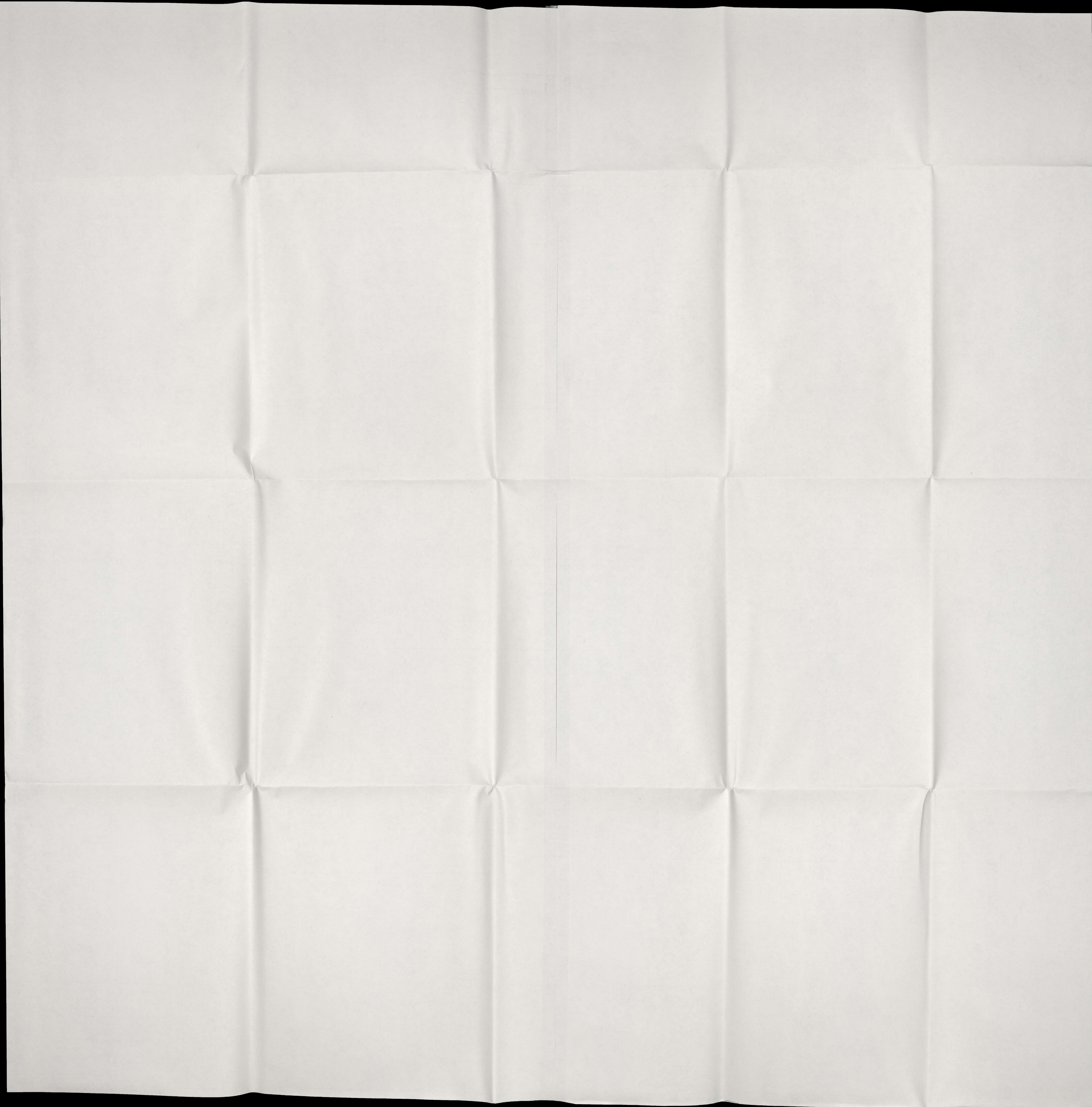
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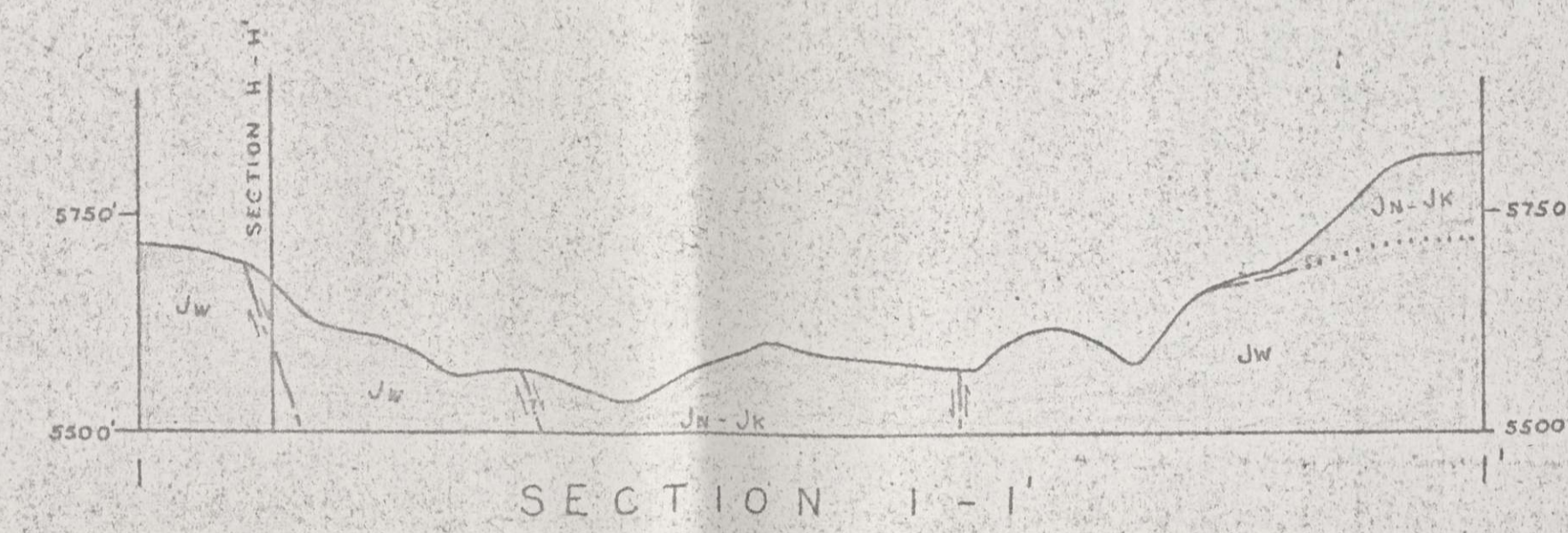
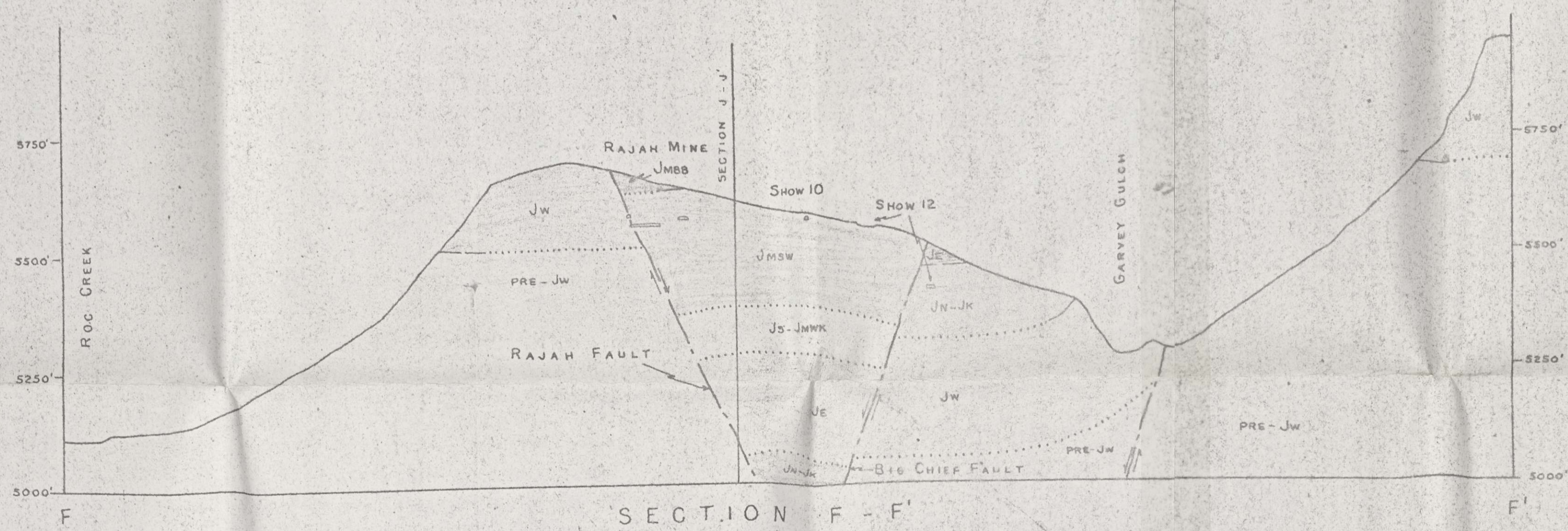
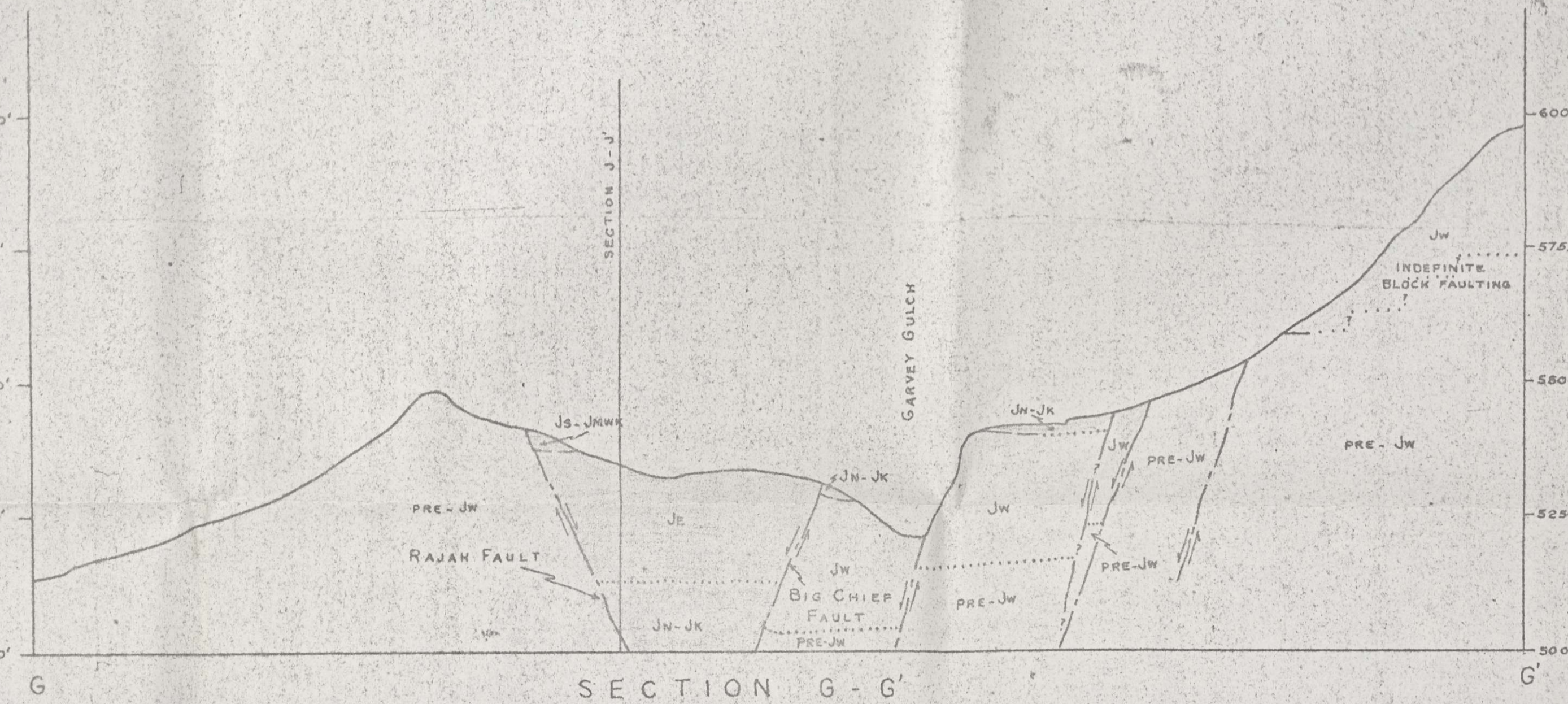
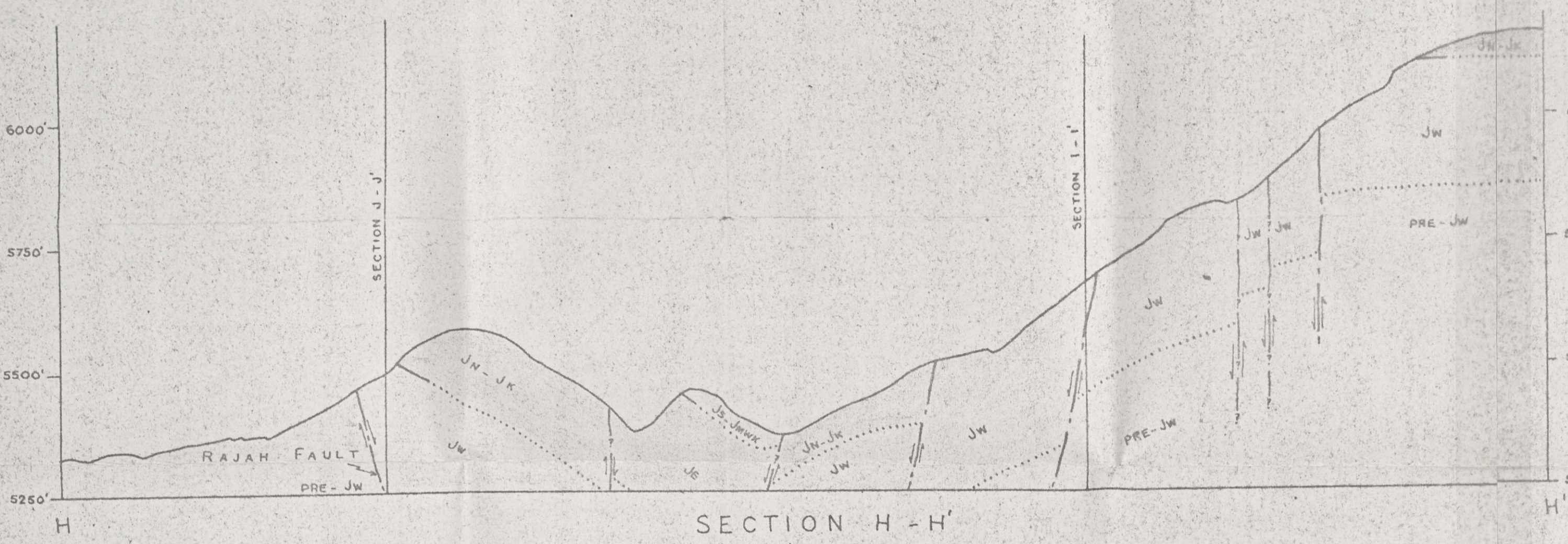
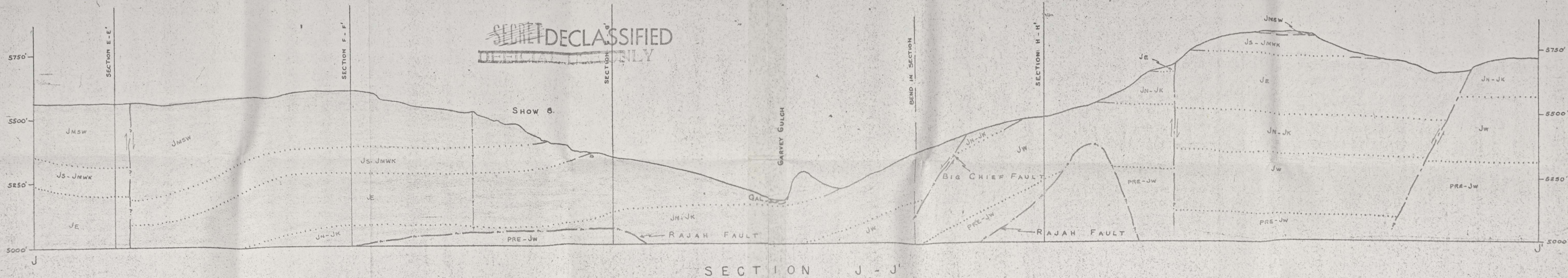
SECTIONS TO ACCOMPANY GEOLOGIC & TOPOGRAPHIC MAPS OF ROC CREEK MINING DISTRICT SHEETS NO. 4 & 5

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 UNION MINES DEVELOPMENT CORPORATION  
 GRAND JUNCTION, COLO.  
 DOLORES PLATEAU AREA  
 ROC CREEK MINING DISTRICT SECTIONS  
 SCALE: 1" = 200' (NO VERTICAL EXAGGERATION) DATE: DECEMBER, 1944  
 DRAWN BY: G. MILLER, G. B. KEITH  
 TRACED BY: S. B. KEITH  
 GEOLOGY BY: G. MILLER, RICHARDSON, GRUENERWALD, WALLS



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SECTIONS TO ACCOMPANY GEOLOGIC & TOPOGRAPHIC MAPS OF ROC CREEK MINING DISTRICT  
SHEETS NO 4 & 5

Phillips Uranium Corporation  
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SHEET NO. 7 *Amo 457*

UNION MINES DEVELOPMENT CORPORATION  
GRAND JUNCTION, COLO.

FIELD OFFICE

~~SECRET~~ DECLASSIFIED  
TITLE: CARPENTER RIDGE DISTRICT  
DOLORES PLATEAU AREA

ROC CREEK MINING DISTRICT SECTIONS

SCALE: 1" = 200' DATE: DECEMBER, 1944

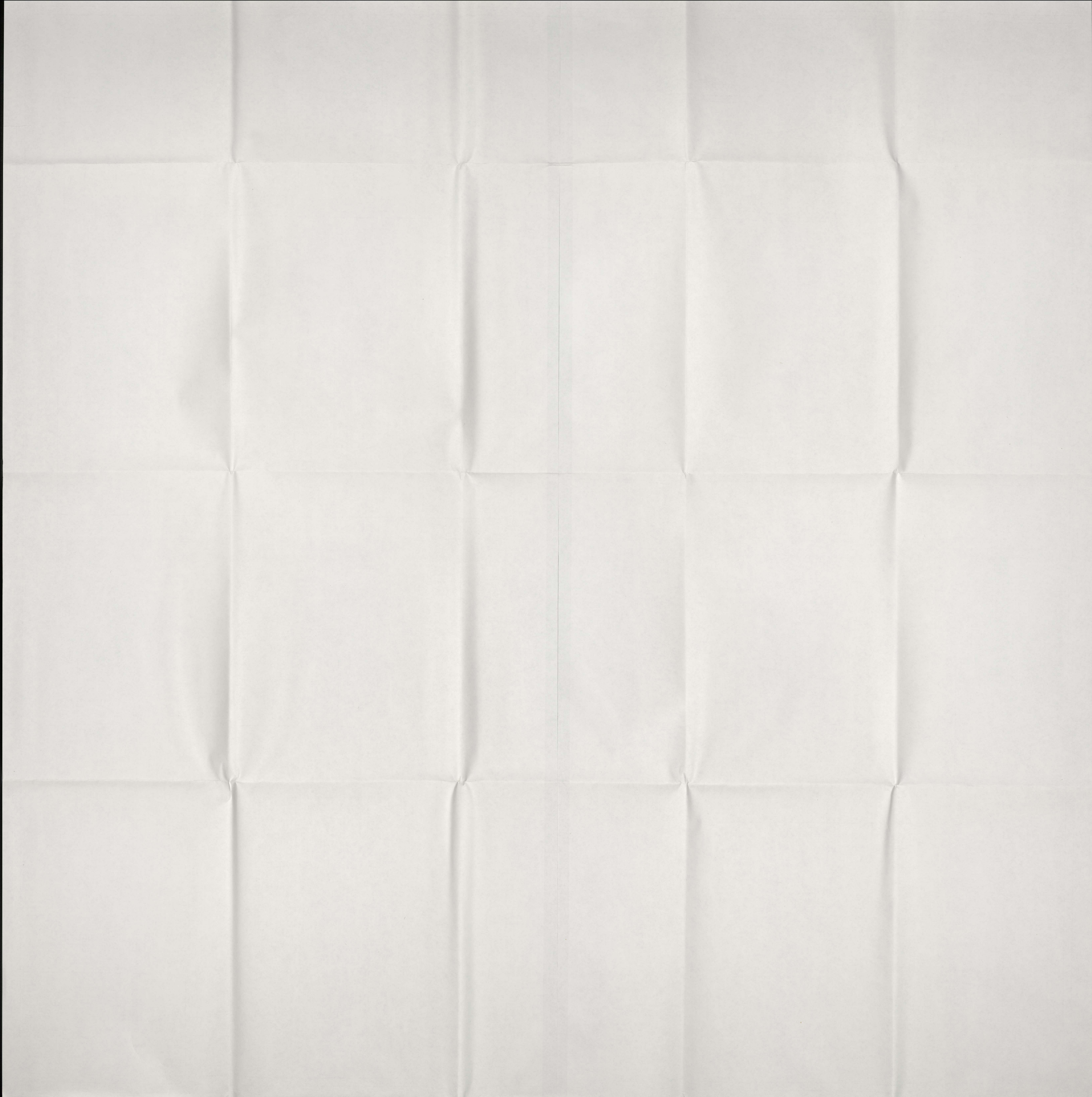
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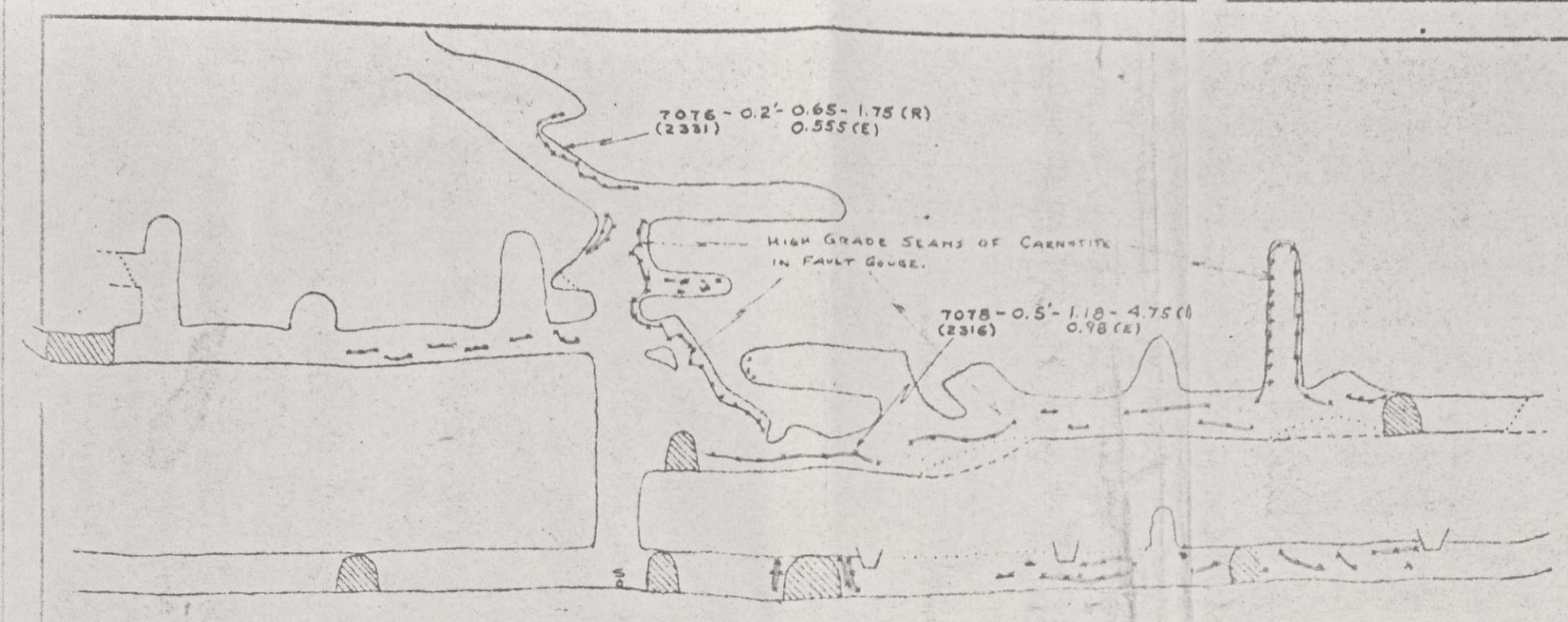
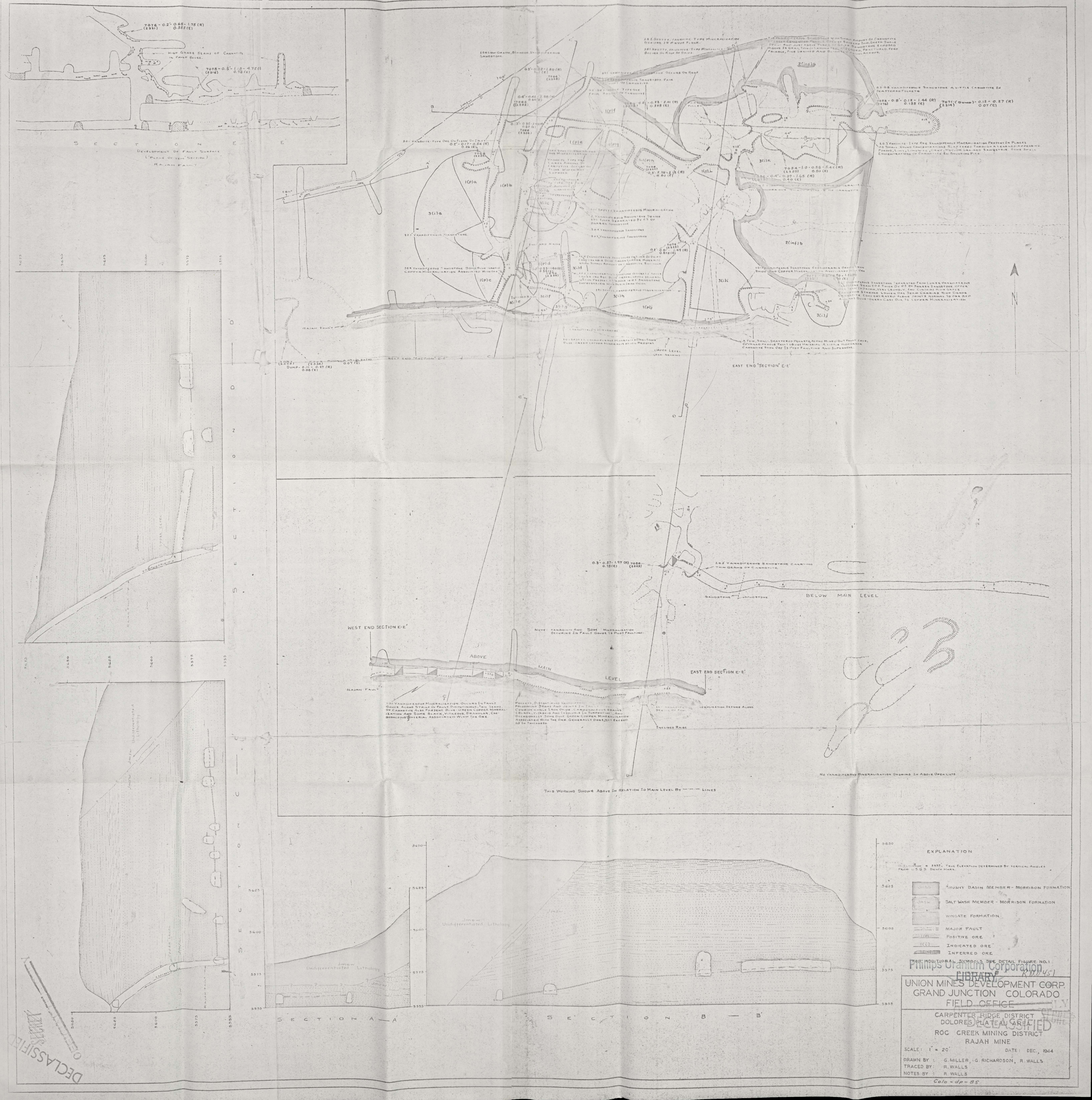
DRAWN BY: G. MILLER, S. B. KEITH

TRACED BY: S. D. KEITH

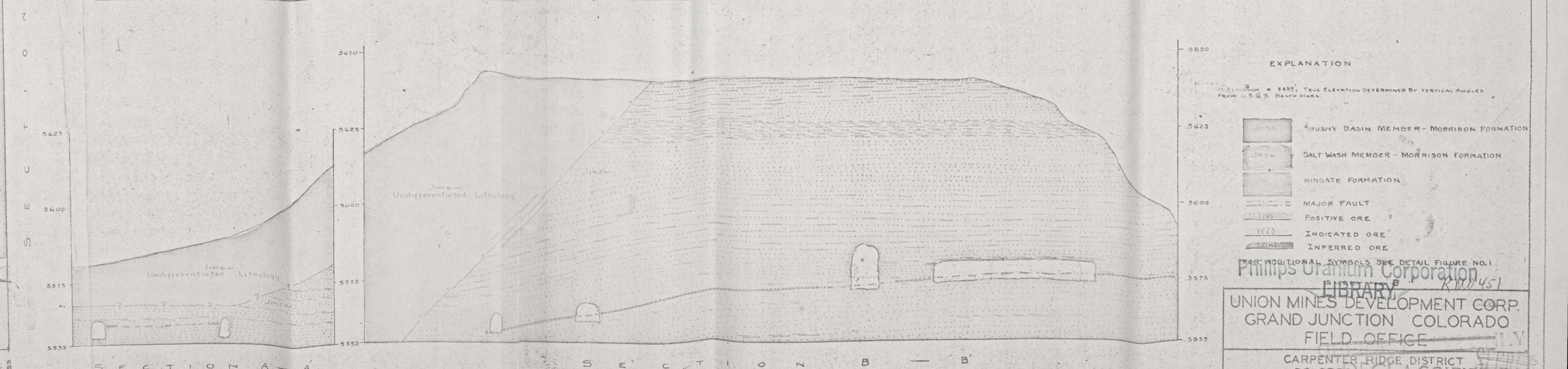
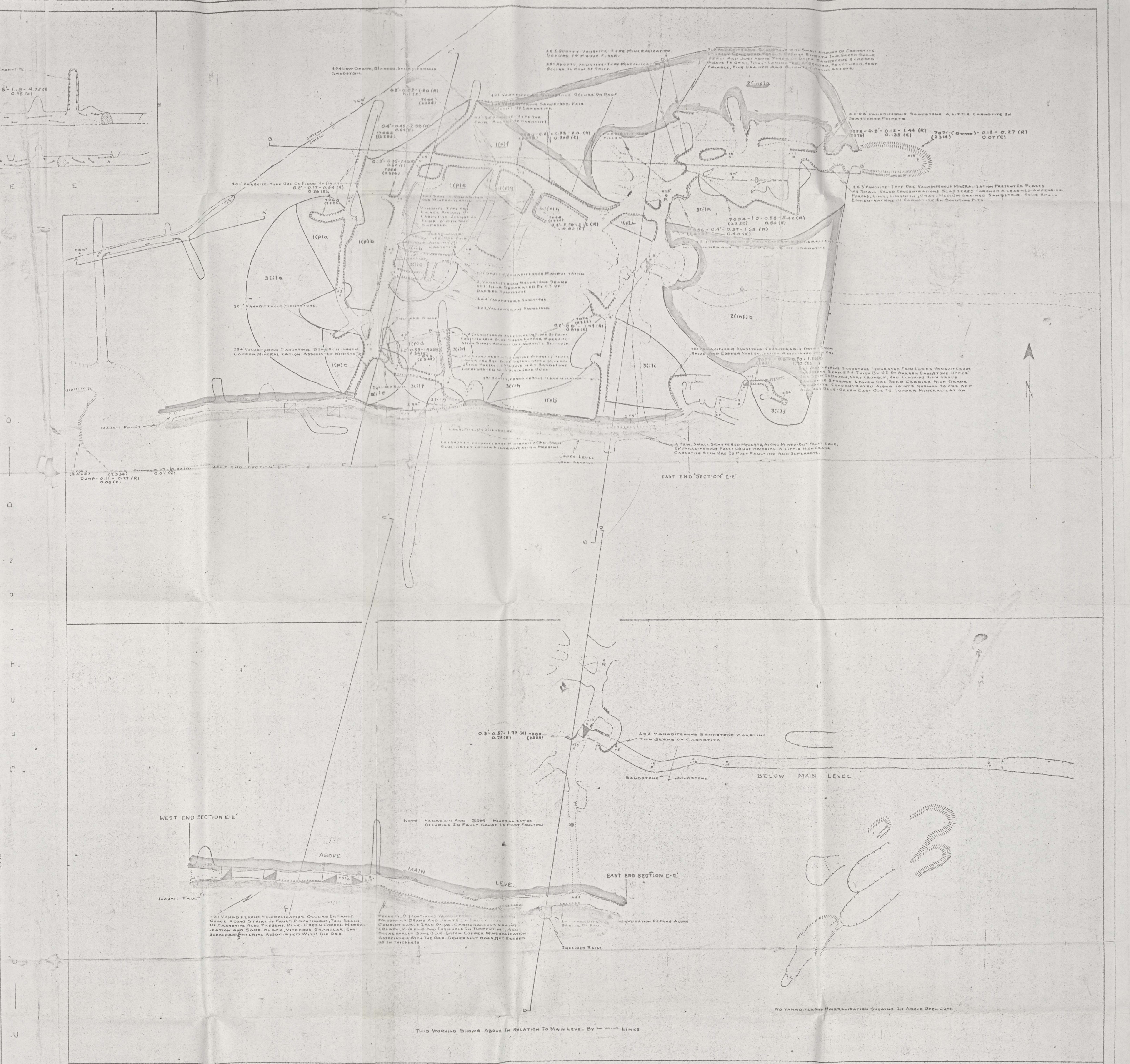
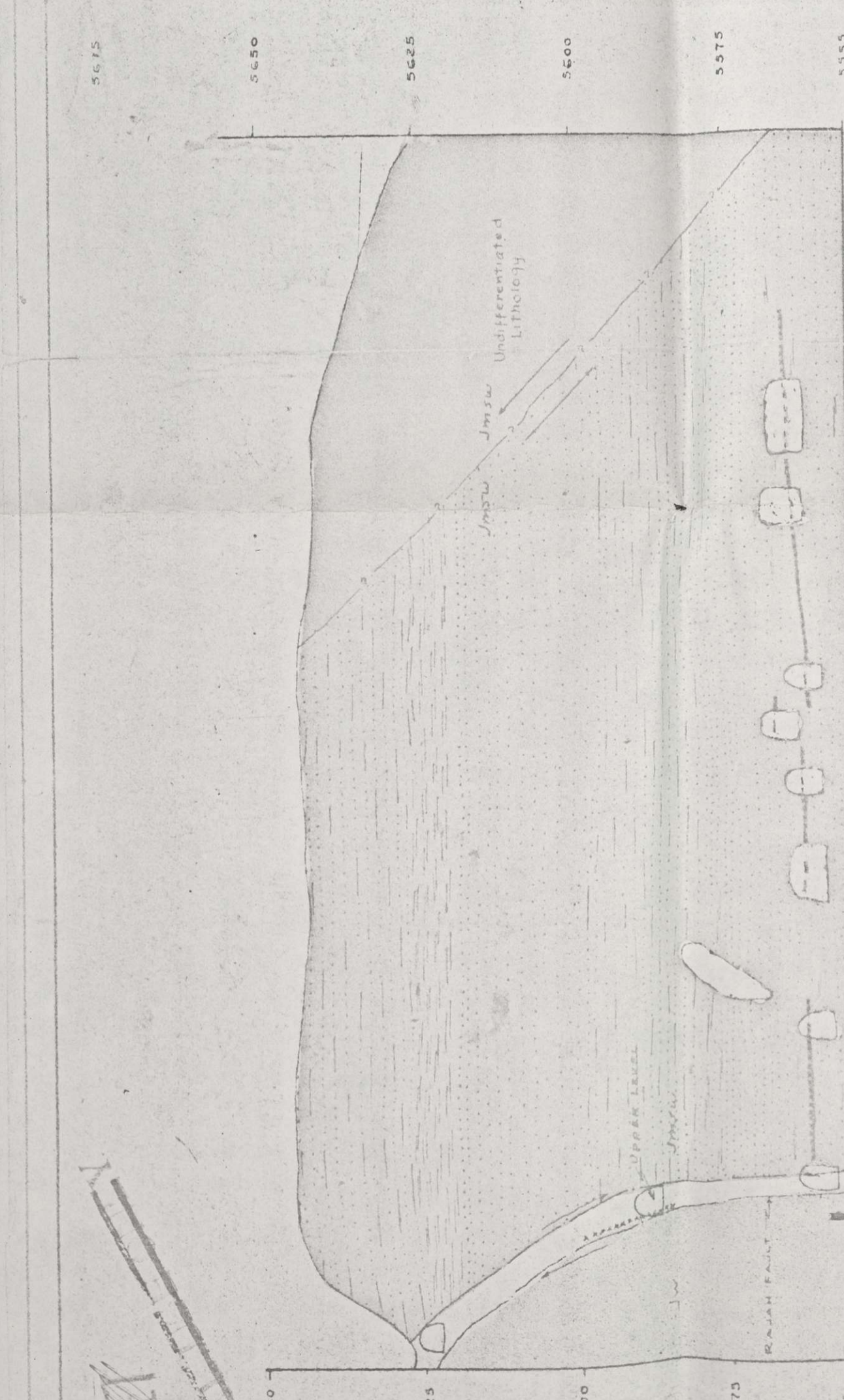
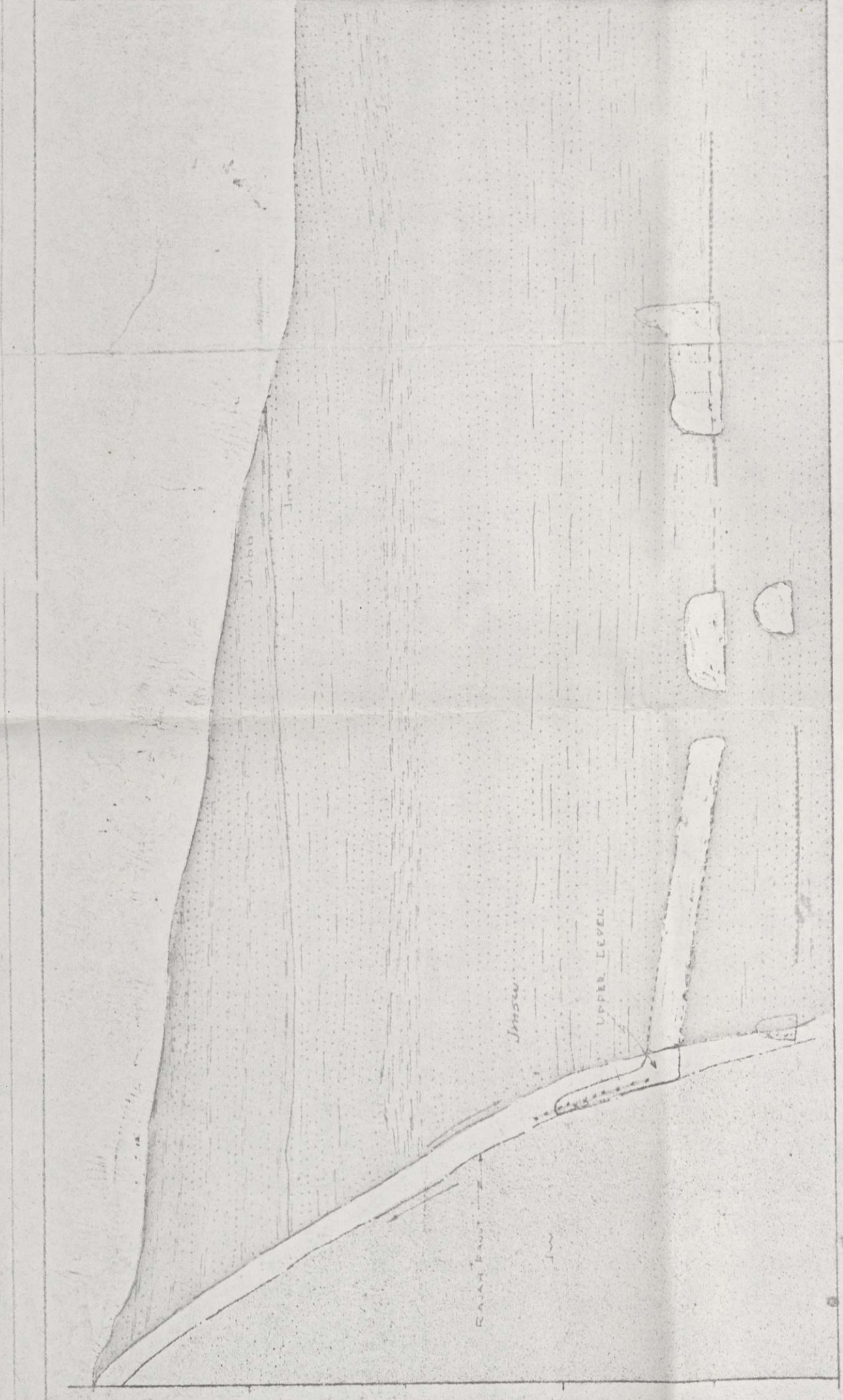
GEOLOGY BY: G. MILLER, RICHARDSON, GRUENSWALD, WALLS

Colo - dp - 64





SECTION E-E'  
DEVELOPMENT OF FAULT SURFACE  
(PLANE OF FAULT SURFACE)  
RAJAH FAULT



SECTION A-A'

SECTION B-B'

SECTION C-C'

SECTION D-D'

EXPLANATION

- Shushy Basin Member - Morrison Formation
- Salt Wash Member - Morrison Formation
- Wingate Formation
- MAJOR FAULT
- POSITIVE ORE
- INDICATED ORE
- INFERRED ORE

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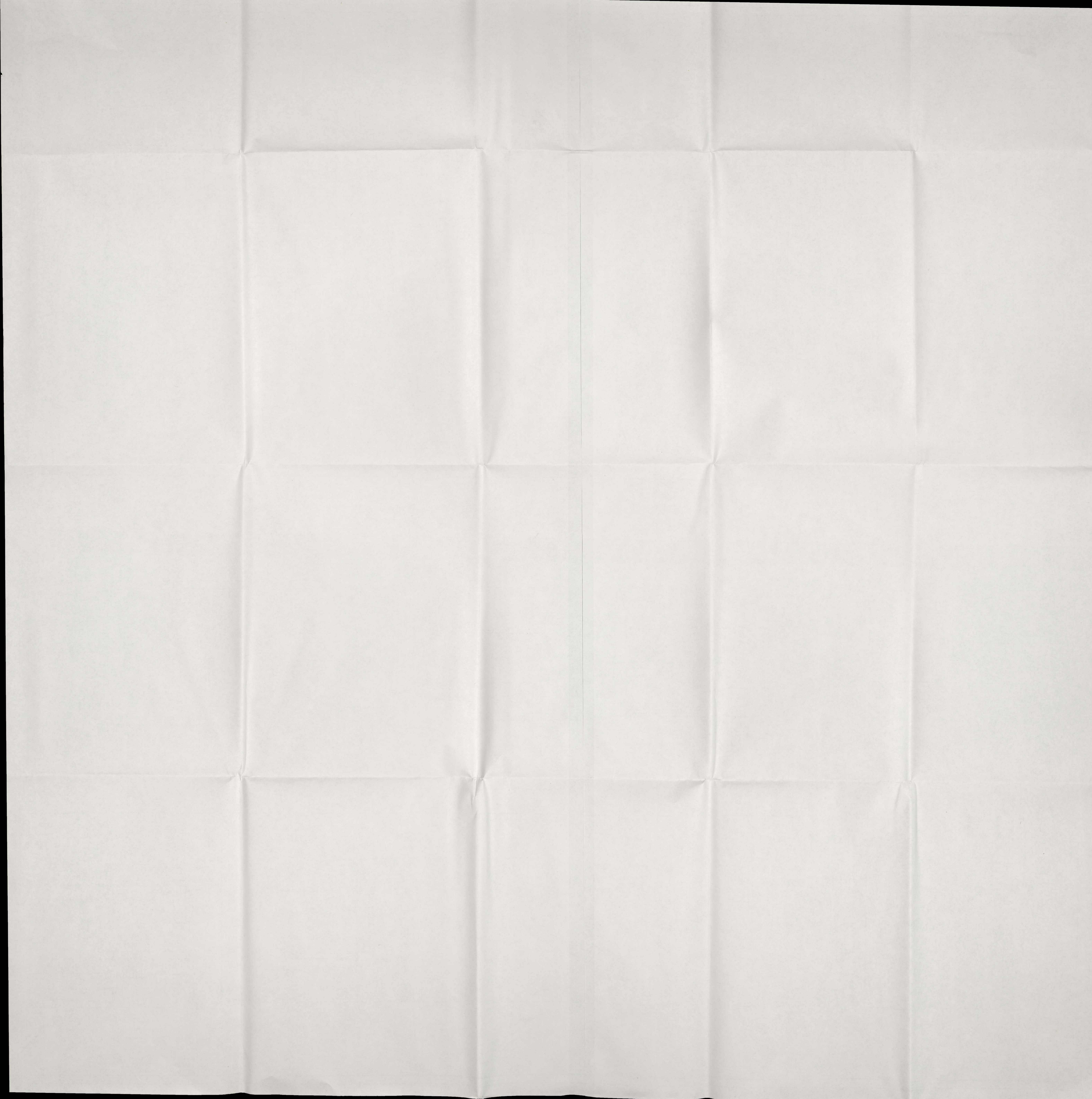
CARPENTER RIDGE DISTRICT  
DOLORES PLATEAU AREA  
ROC CREEK MINING DISTRICT  
RAJAH MINE

SCALE: 1" = 20'  
DATE: DEC, 1944

DRAWN BY: G. MILLER, G. RICHARDSON, R. WALLS  
TRACED BY: R. WALLS  
NOTES BY: R. WALLS

Colo - dp - 85

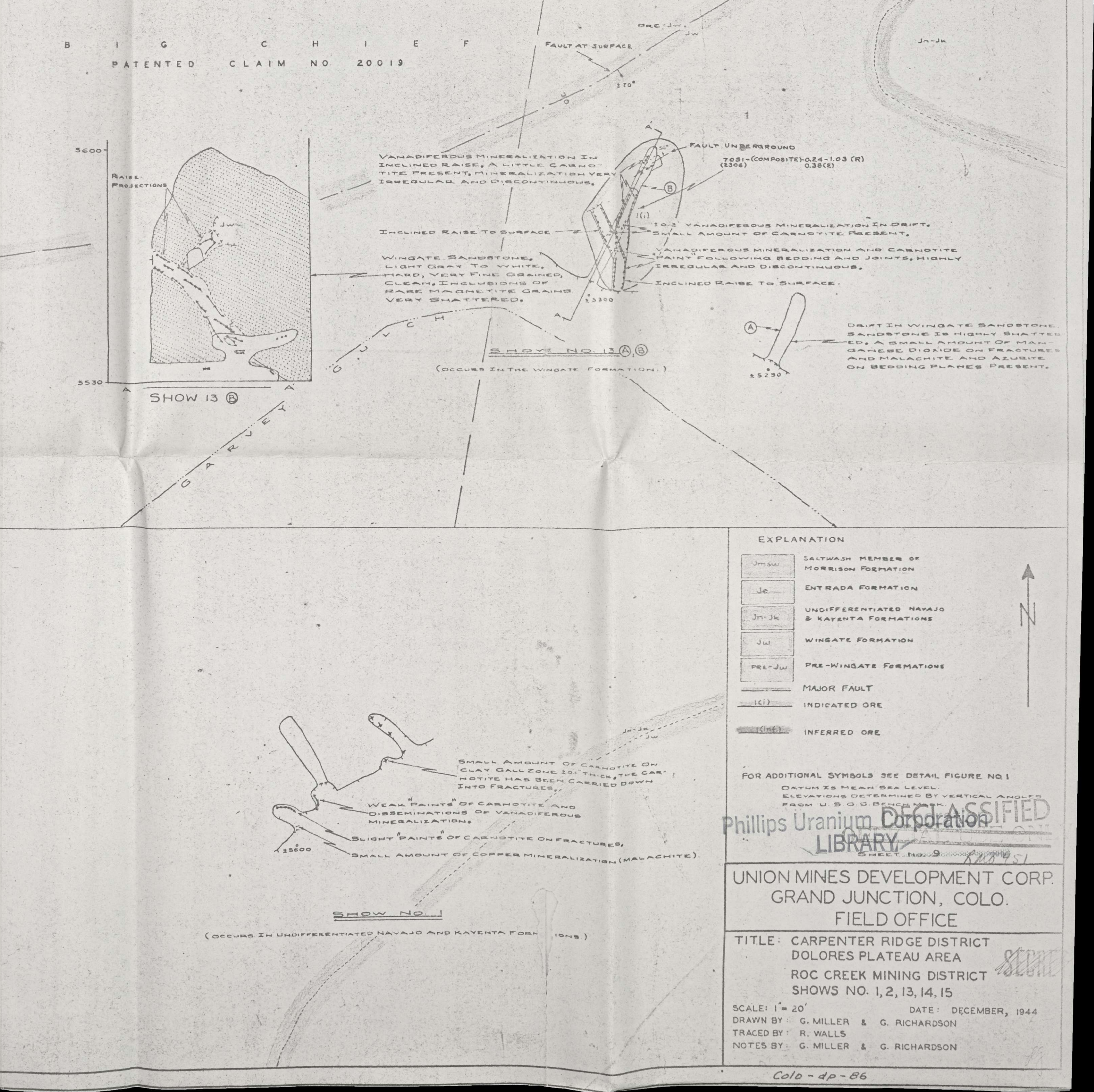
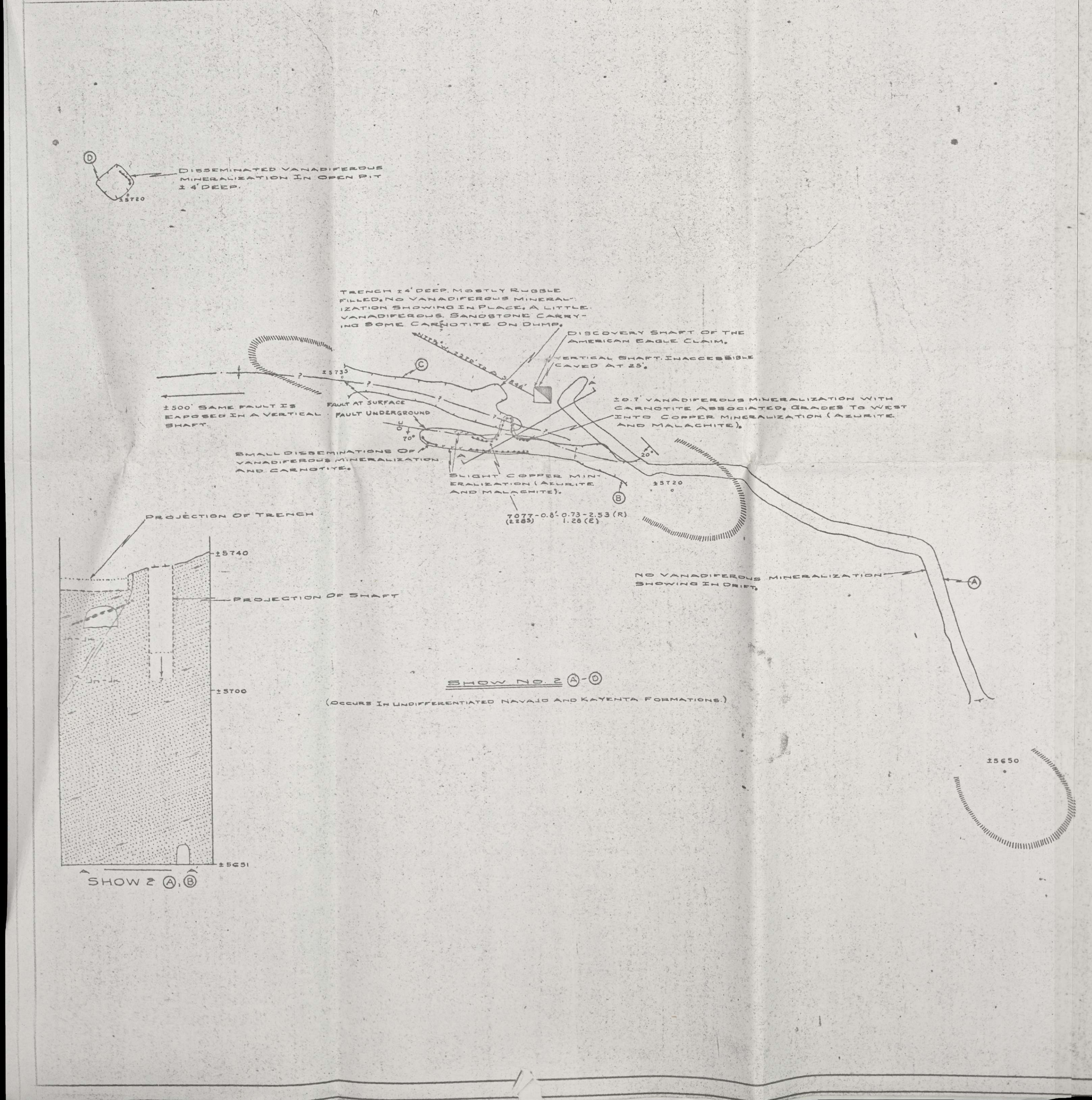
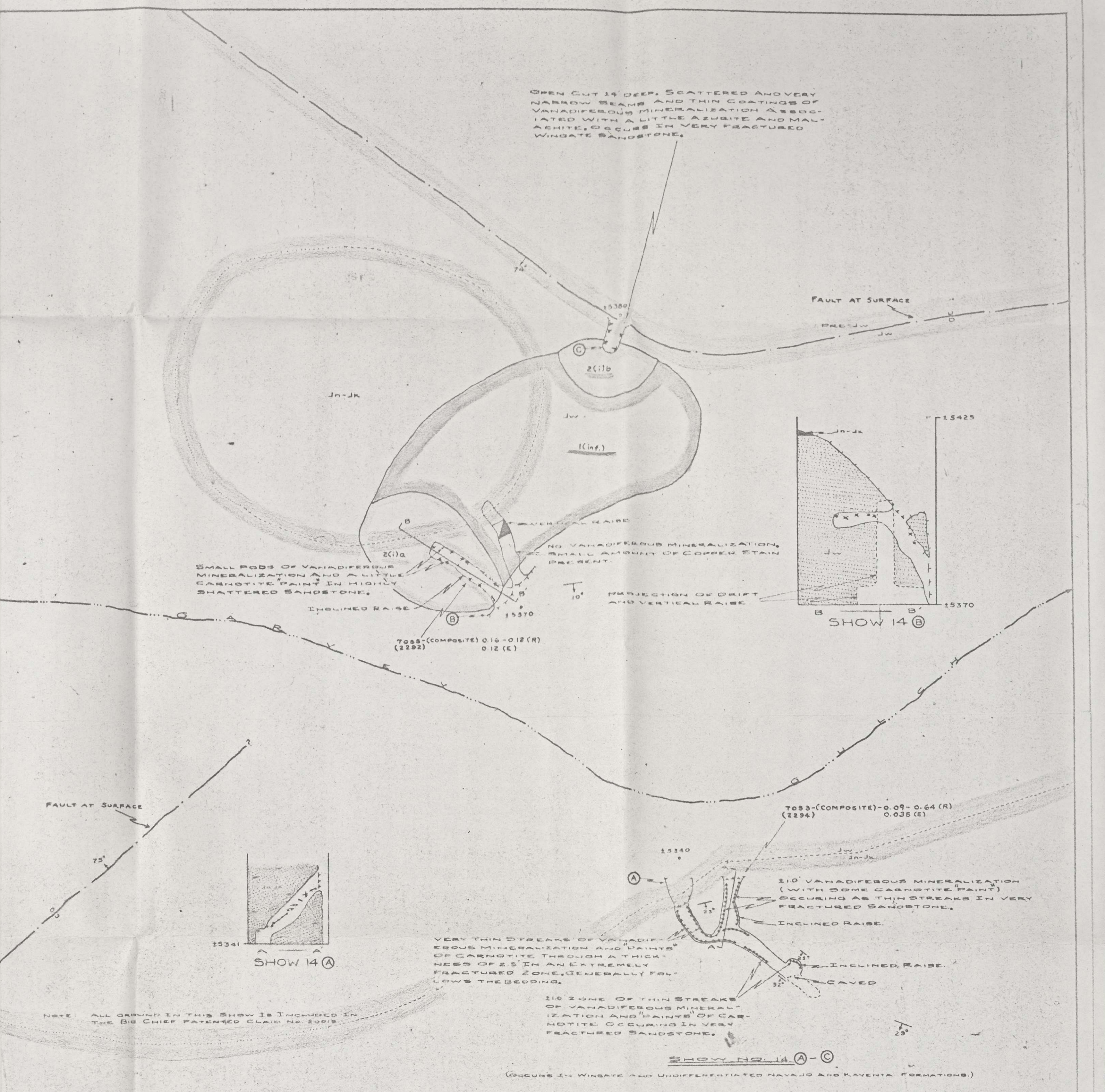
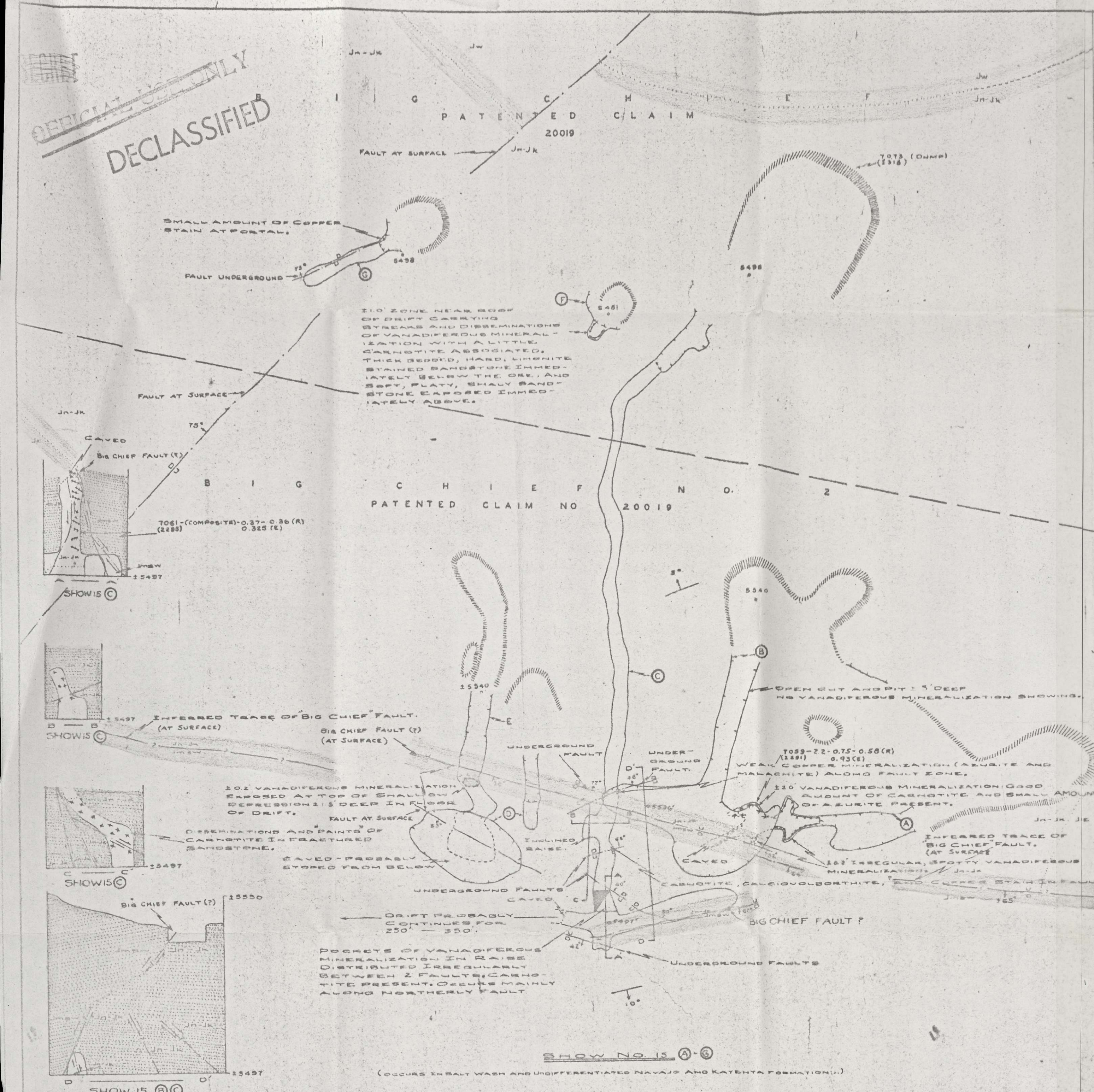
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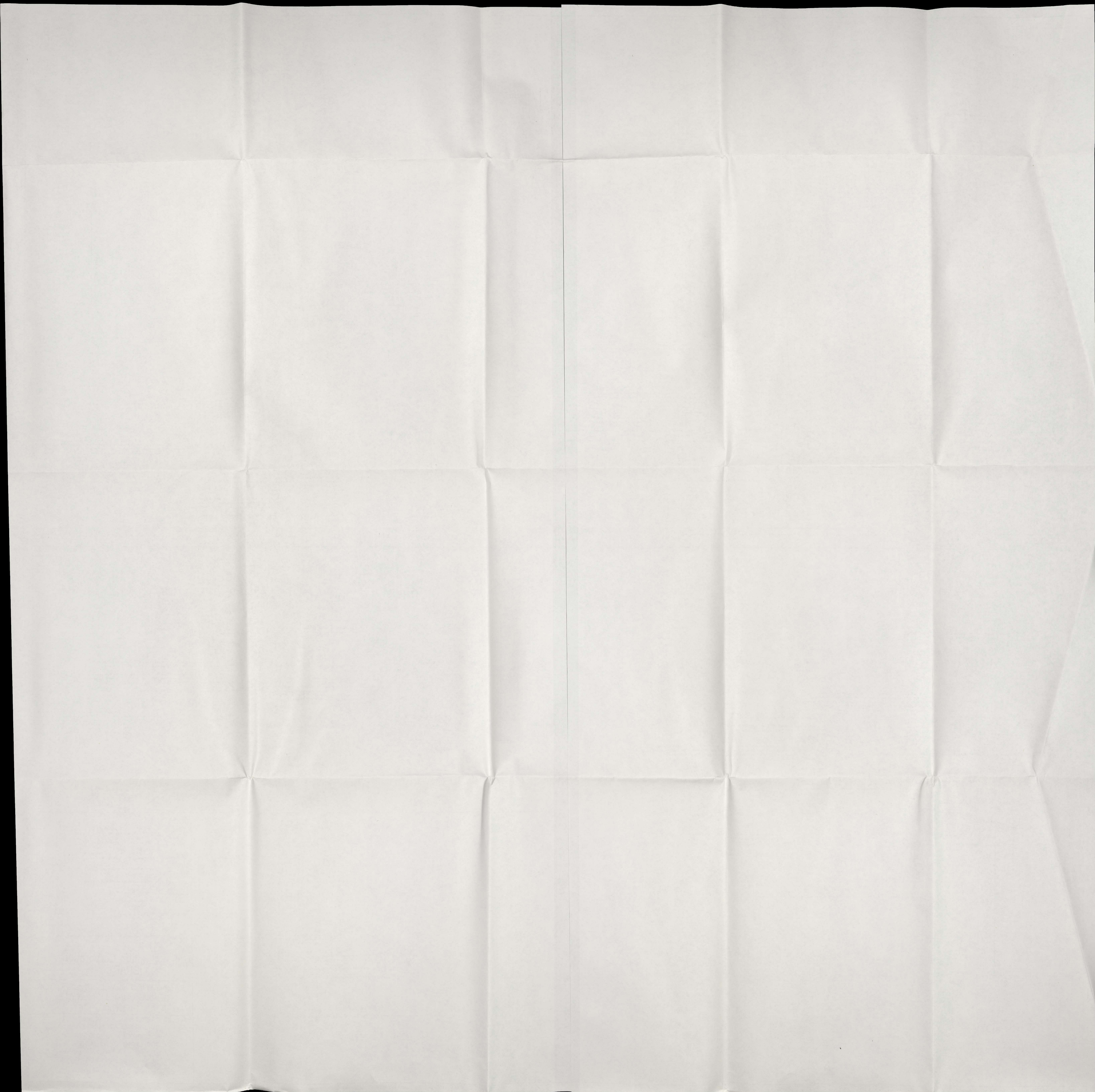
PATENTED CLAIM NO. 20019



EXPLANATION

Je	SALTWASH MEMBER OF MORRISON FORMATION
Je	ENTRADA FORMATION
Jm-Jk	UNDIFFERENTIATED NAVAJO & KAYENTA FORMATIONS
Ju	WINGATE FORMATION
Pre-Ju	PRE-WINGATE FORMATIONS
(f)	MAJOR FAULT
(o)	INDICATED ORE
(inf)	INFERRED ORE

FOR ADDITIONAL SYMBOLS SEE DETAIL FIGURE NO. 1  
 DATUM IS MEAN SEA LEVEL  
 ELEVATIONS DETERMINED BY VERTICAL CONTROL FROM U.S.G.S. REPAIRS  
 Phillips Uranium Corporation  
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 UNION MINES DEVELOPMENT CORP.  
 GRAND JUNCTION, COLO.  
 FIELD OFFICE  
 TITLE: CARPENTER RIDGE DISTRICT  
 DOLORES PLATEAU AREA  
 ROC CREEK MINING DISTRICT  
 SHOWS NO. 1, 2, 13, 14, 15  
 SCALE: 1" = 20' DATE: DECEMBER, 1944  
 DRAWN BY: G. MILLER & G. RICHARDSON  
 TRACED BY: R. WALLS  
 NOTES BY: G. MILLER & G. RICHARDSON



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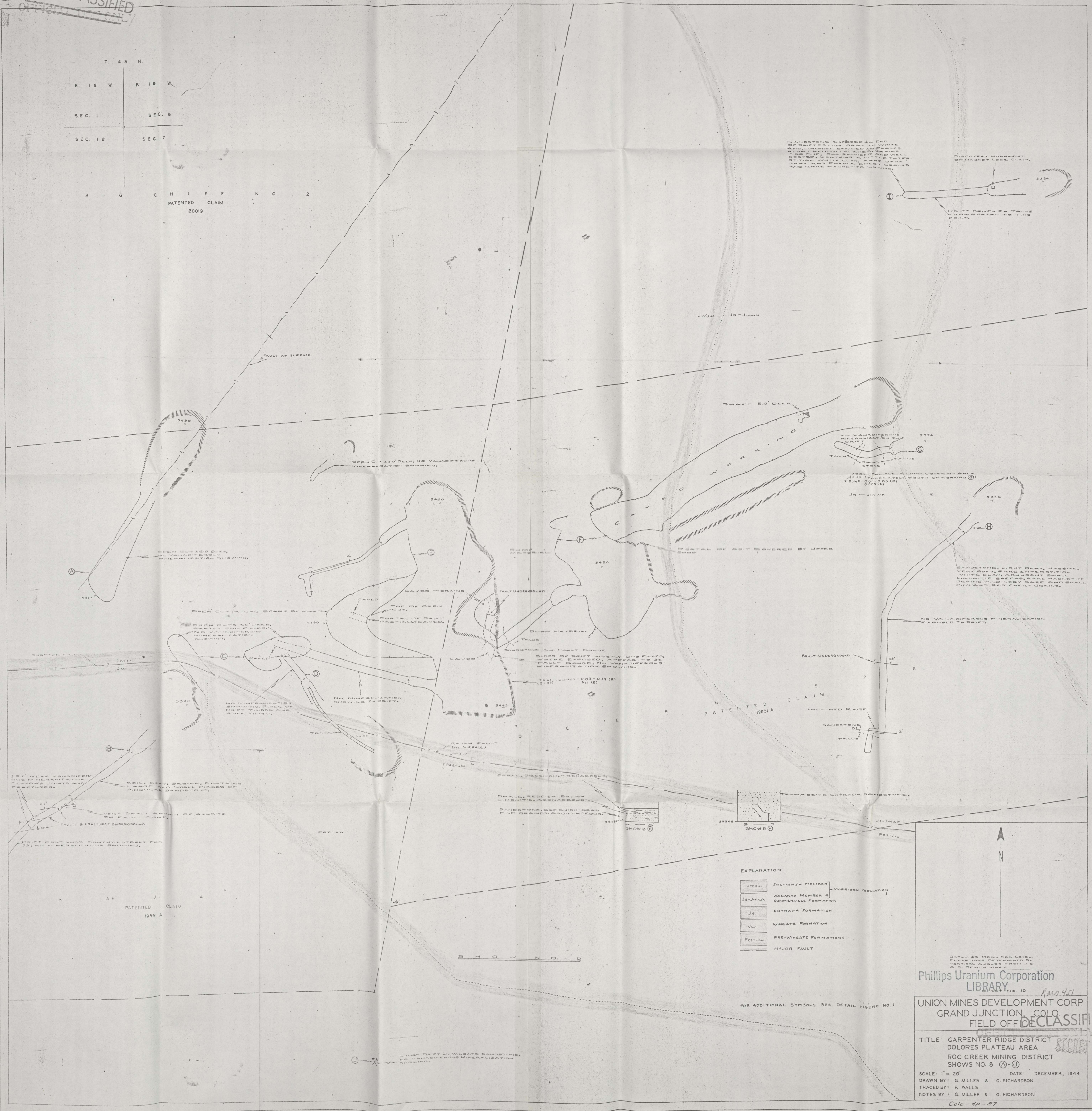
T. 48 N.  
R. 19 W. R. 18 W.  
SEC. 1 SEC. 6  
SEC. 12 SEC. 7

B I G C H I E F N O 2  
PATENTED CLAIM  
20019

SANDSTONE EMBEDDED IN END OF DRIFT IS LIGHT GRAY TO WHITE AND UNDEVELOPED STRONGLY DEVELOPED ALONG BEDDING PLANE IN PLAINS AND END OF BEDDING AND WELL SORTED GRAVEL AT THE INTERSTITIAL WHITE CLAY, SAND GRAINS GRAY AND PINKISH GRAY GRAINS AND BASE MAGNETIC GRAINS.

DISCOVERY MONUMENT OF MOUNT LEBEE CLAIM.

DRIFT DRIVEN IN TALUS WINDPORTAL TO THIS POINT.



NO VANADIFEROUS MINERALIZATION IN DRIFT.

TOES (SAMPLE OF DUMP COVERING AREA 1250) TAKEN AT SOUTHWEST CORNER OF DUMP (200' x 100').

SANDSTONE, LIGHT GRAY, MASSIVE, VERY SOFT, SANDY INTERSTITIAL WHITE CLAY ABUNDANT SMALL LIMONITE SPERMALITE MAGNETITE GRAINS AND VERY BASE AND SMALL IRON AND RED CHEROKEE.

NO VANADIFEROUS MINERALIZATION EMBEDDED IN DRIFT.

PATENTED CLAIM 19051 A

102 YEAR VANADIFEROUS MINERALIZATION FOLLOWS JOINTS AND FRACTURES.

SOIL, DARK BROWN, CONTAINS LARGE AND SMALL PIECES OF ANGULAR SANDSTONE.

VERY SMALL AMOUNT OF ALBITE IN FAULT ZONE.

DRIFT CONTINUED SOUTHWESTERLY FOR 20, NO MINERALIZATION SHOWING.

SHALLOO REDDISH BROWN UNDEVELOPED MINERALIZATION SANDSTONE, DREYER GRAY FINE GRAINED, ADULACIOUS.

MASSIVE ENTRADA SANDSTONE.

EXPLANATION

Jmsw	SALY WASH MEMBER	MORRISON FORMATION
Js-Jmwk	WANAKAH MEMBER & SUMNERVILLE FORMATION	
Je	ENTRADA FORMATION	
Jw	WINGATE FORMATION	
Pre-Jw	PRE-WINGATE FORMATION	
- - - - -	MAJOR FAULT	

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GRAND JUNCTION, COLO.  
FIELD OFFICE

TITLE: CARPENTER RIDGE DISTRICT DOLORES PLATEAU AREA ROC CREEK MINING DISTRICT SHOWS NO. 8 (A)-(I)

SCALE: 1" = 20' DATE: DECEMBER, 1944  
DRAWN BY: G. MILLER & G. RICHARDSON  
TRACED BY: R. WALLS  
NOTES BY: G. MILLER & G. RICHARDSON

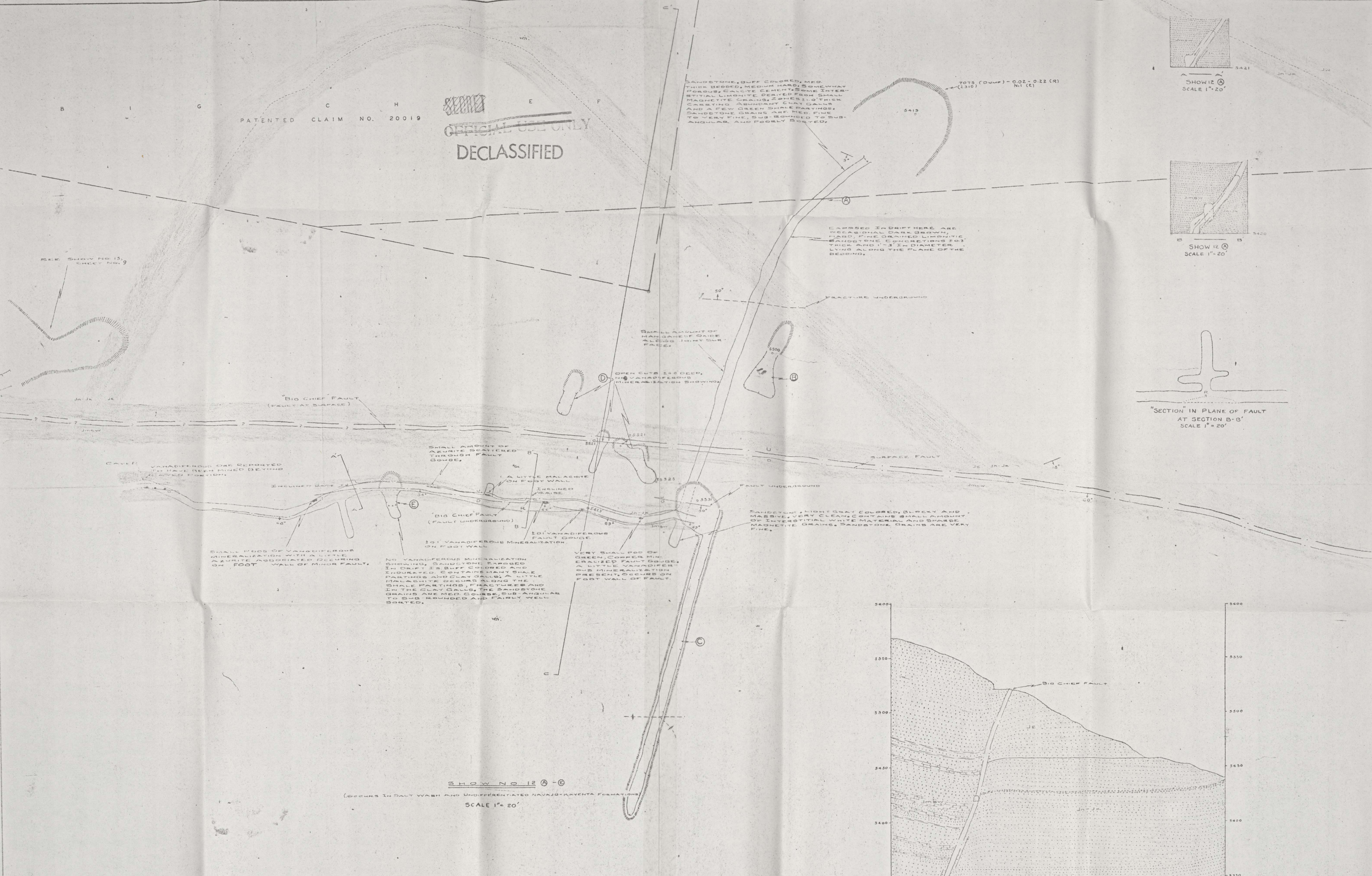
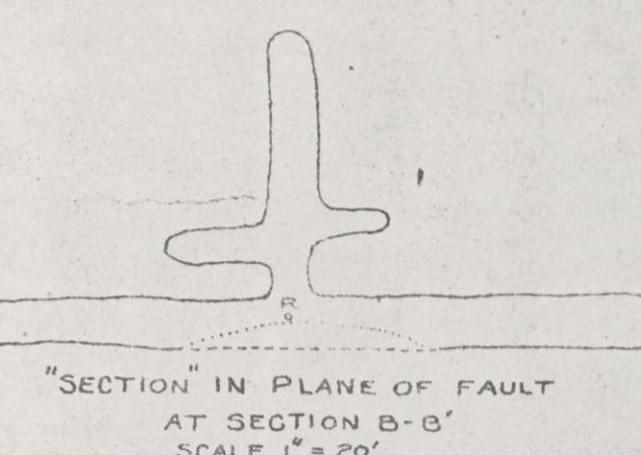
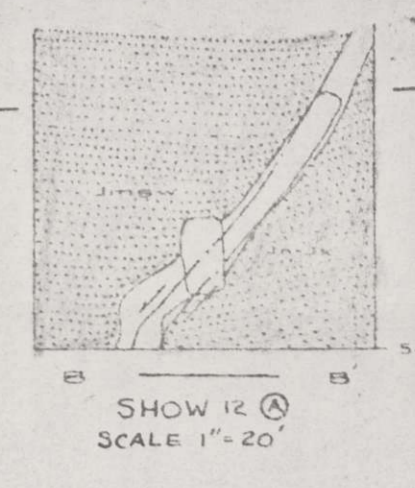
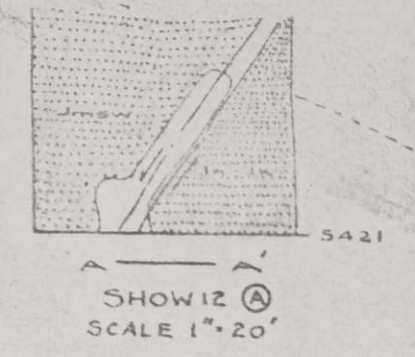
Colo - dp - 87



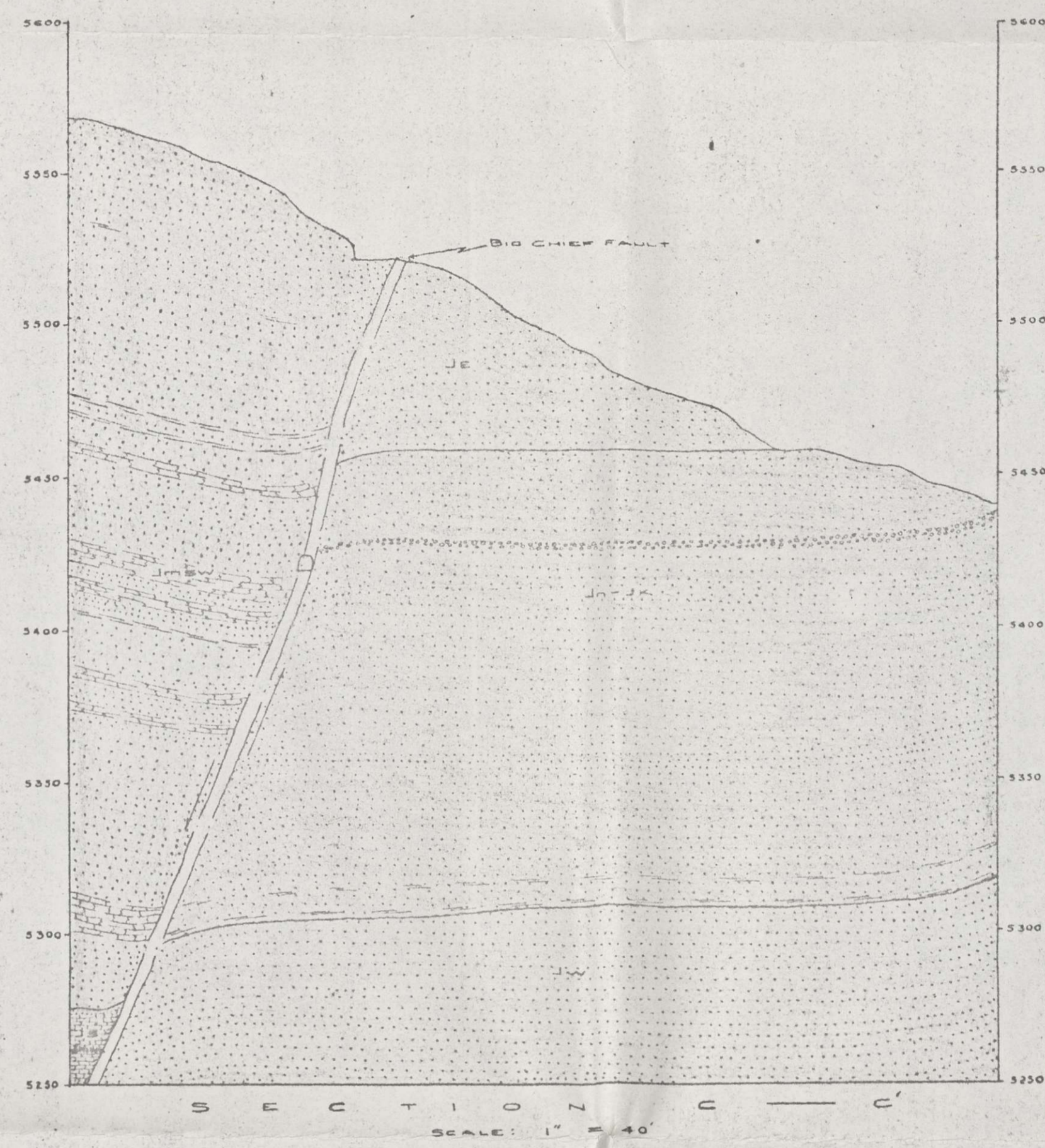
PATENTED CLAIM NO. 20019

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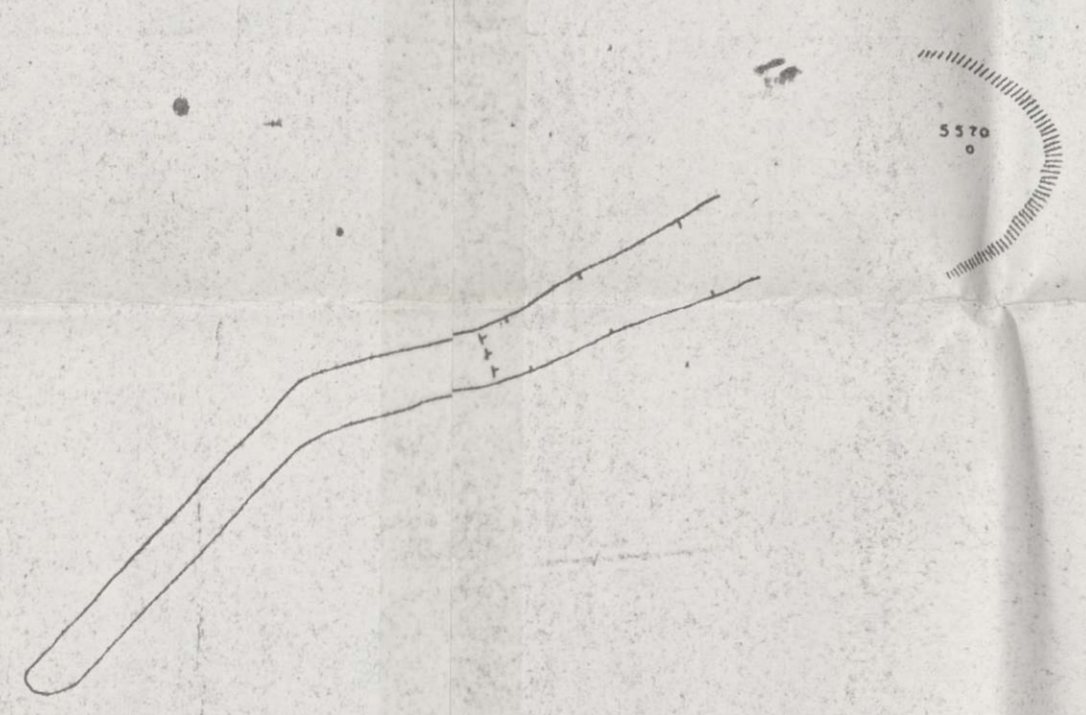
SANDSTONE, BUFF COLORED, MED  
THICK BEDDED, MEDIUM GRADE  
FACIES, CLAYE GRAIN, INTER  
STRAT LIGNITE BEDS, FROM SHAL  
MAGNETITE GRAINS, SANDSTONE  
CONTAINS NUMEROUS CLAY GALLS  
AND A FEW GREEN SHALE PARTINGS  
SANDSTONE GRAINS ARE MED FINE  
TO VERY FINE, SUB-ANGULAR TO SUB-  
ANGULAR AND POORLY SORTED.



SHOW NO 12 (Occurs in Salt Wash and Undifferentiated Navajo/Katana Formations)  
SCALE 1" = 20'



PATENTED CLAIM NO. 20019



SHOW NO 10 (Occurs in the Salt Wash Formation)  
SCALE 1" = 20'

OPEN CUTS DEEP, NO VANADIFEROUS  
MINERALIZATION SHOWING, SAND-  
STONE EXPOSED IS WHITE AND  
HARD, CONTAINS NUMEROUS CLAY  
GALLS WHICH HAVE ALTERED TO  
A SOFT WHITE MATERIAL, SOME  
CAVERNS, FINE FRACTURES NOTED.

SHOW NO 11 (Occurs in the Salt Wash Formation)  
SCALE 1" = 20'

NO VANADIFEROUS MINERALIZATION  
SHOWING, SANDSTONE EXPOSED IN  
DRIFT IS GRAY TO WHITE, GRAINS  
ARE COARSE SUB-ANGULAR TO  
ANGULAR AND FAIRLY WELL SORTED,  
CONTAINS NUMEROUS CLAY GALLS  
AND SHALE PARTINGS.

SHOW NO 9 (Occurs in the Salt Wash Formation)  
SCALE 1" = 20'

- EXPLANATION
- SALT WASH MEMBER OF MORRISON FORMATION
  - NAVAJA MEMBER OF MORRISON FORMATION AND THE SUMMERVILLE FORMATION UNDIFFERENTIATED
  - KANAB FORMATION
  - NAVAJA AND KATANA FORMATIONS UNDIFFERENTIATED
  - WINGATE FORMATION
  - MAJOR FAULT

SEE DETAIL FIGURE NO. 1 FOR ADDITIONAL SYMBOLS

N

DATE IS MEAN SEA LEVEL  
ELEVATIONS DETERMINED BY  
VERTICAL ANGLES FROM U.S.G.S.  
BENCH MARK

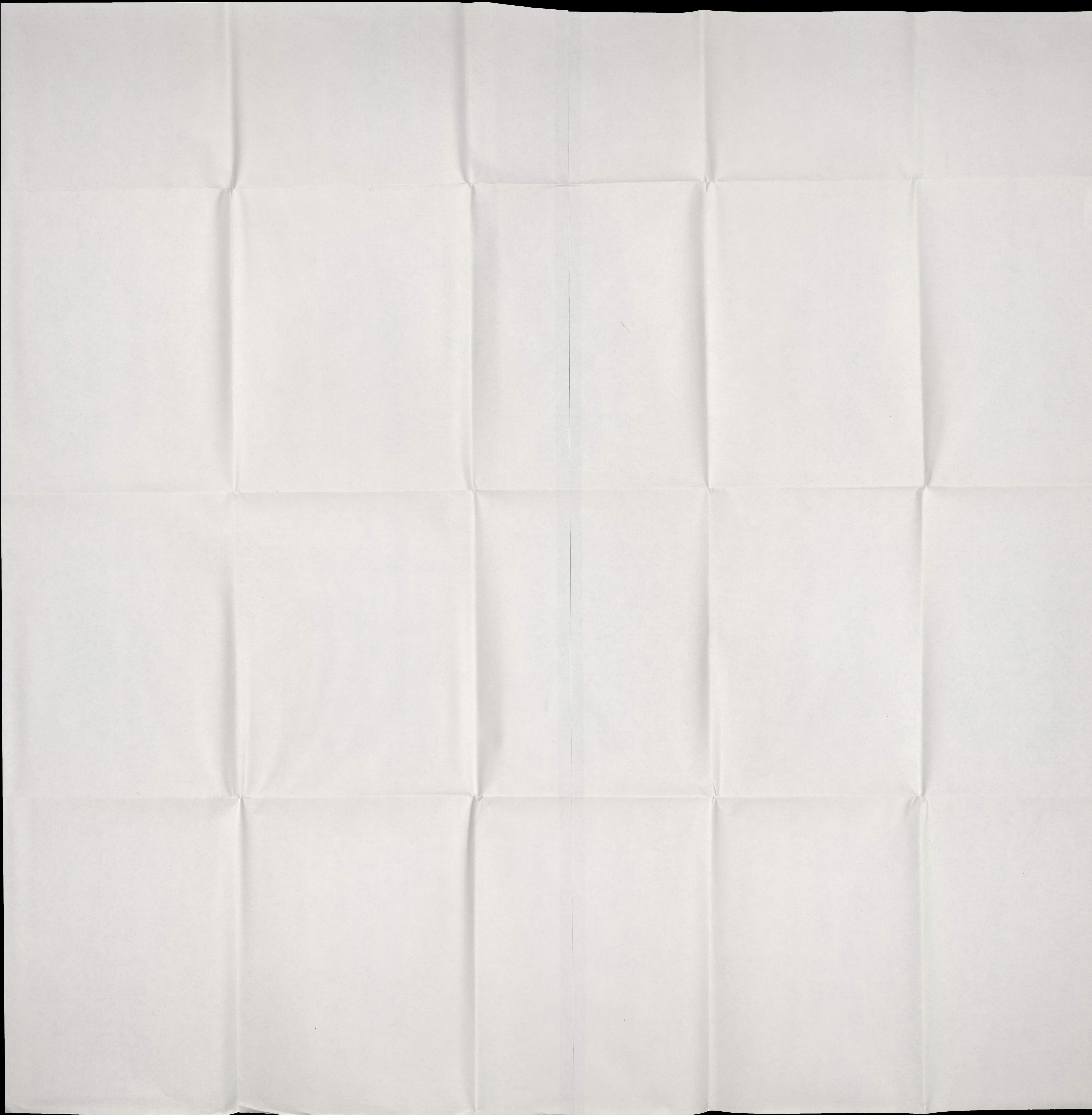
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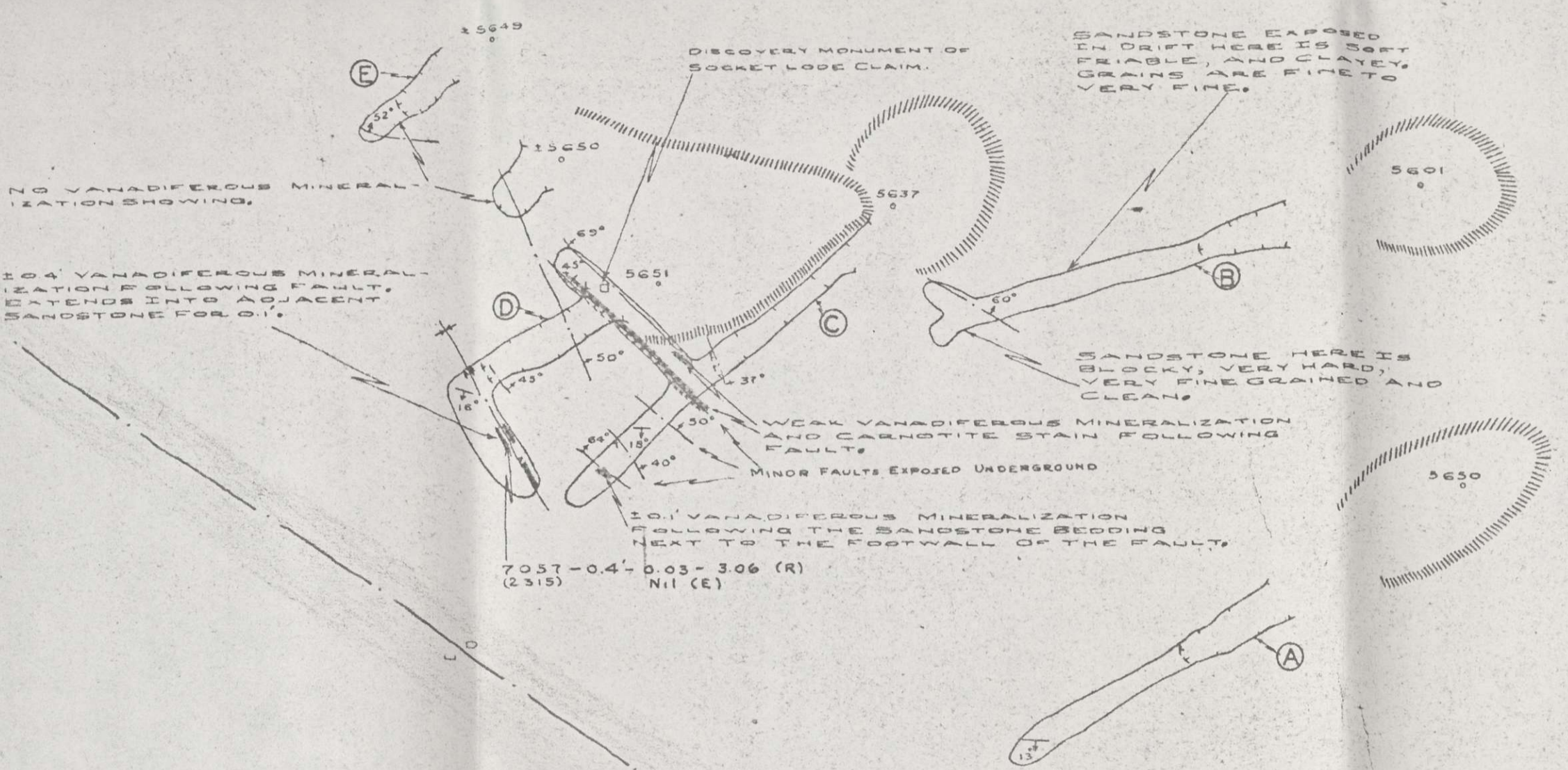
TITLE: CARPENTER RIDGE DISTRICT  
POLORES PLATEAU AREA  
DECLASSIFIED MINING DISTRICT  
SHOWS NO. 9, 10, 11, 12

SCALE: AS SHOWN DATE: DECEMBER, 1944  
DRAWN BY: G. MILLER & G. RICHARDSON  
TRACED BY: R. WALLS  
NOTES BY: G. MILLER & G. RICHARDSON

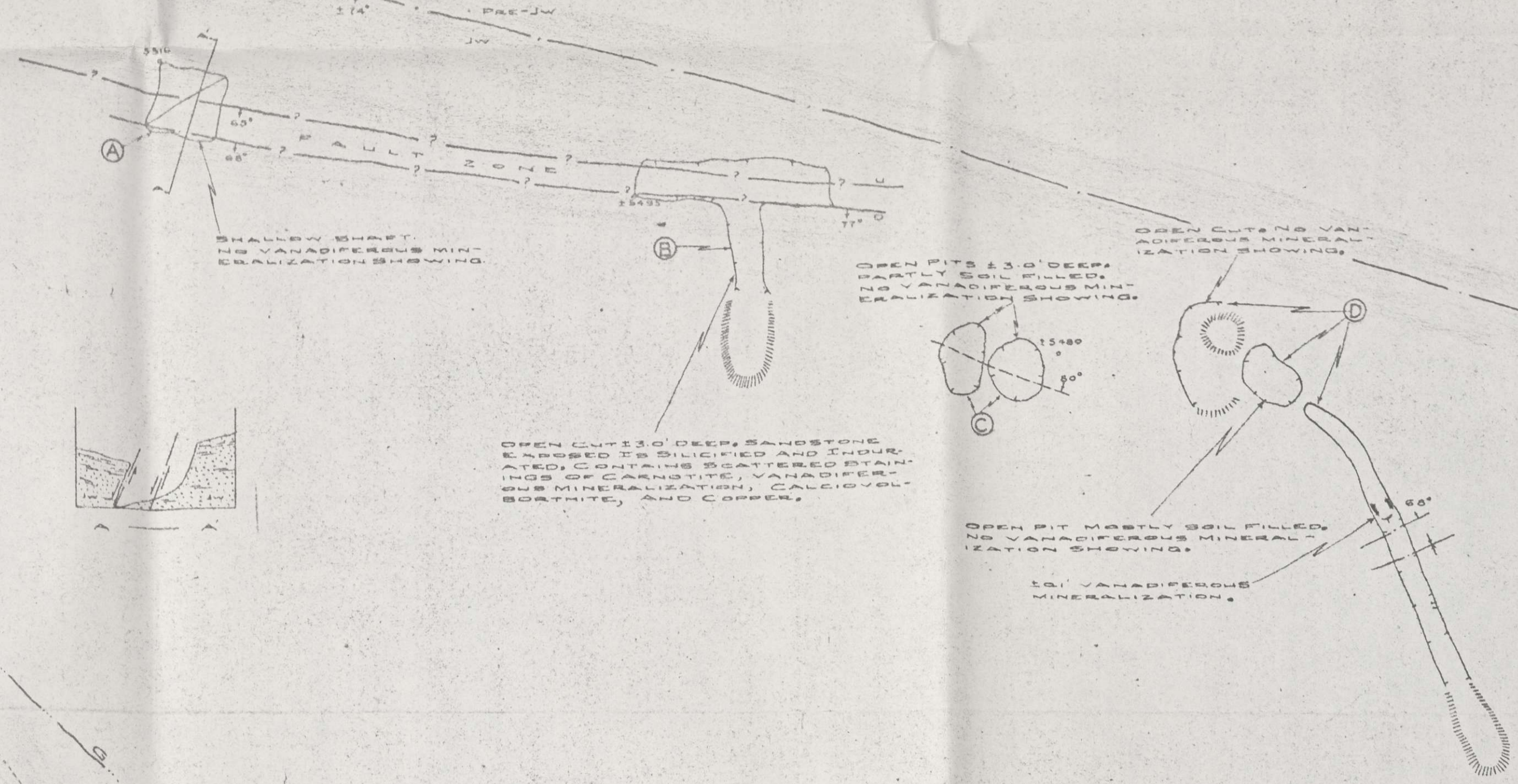
Colo - dp-88



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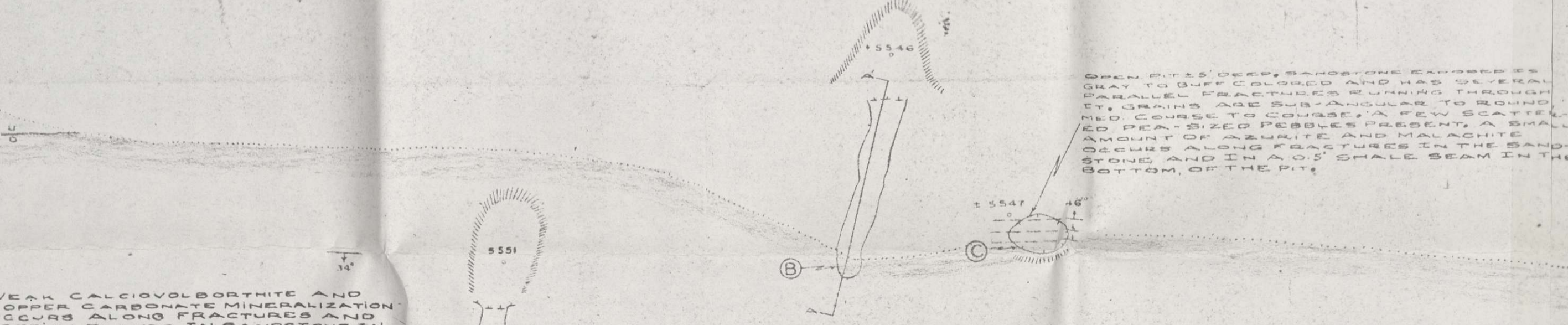


SHOW NO. 23 (A-C)  
 (OCCURS IN THE SALT WASH FORMATION)



SHOW NO. 15 (A-C)  
 (OCCURS IN THE WINGATE FORMATION)

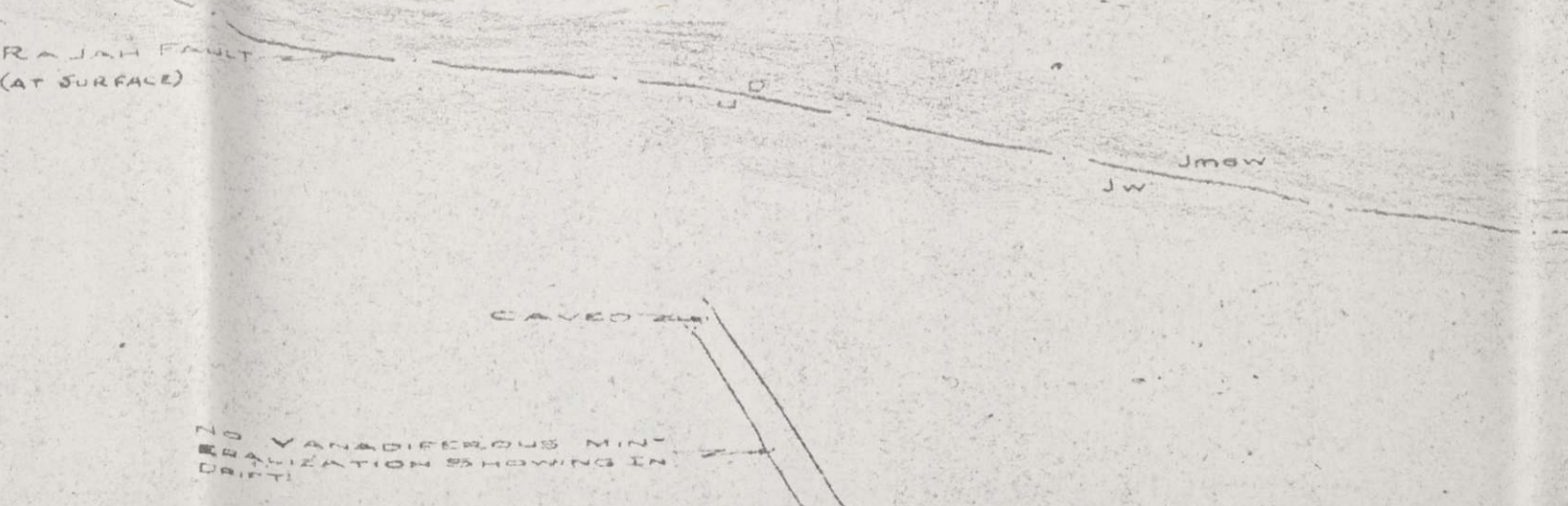
Z O N I T A P L E X I L Y O F A U C L B L E E D



SHOW NO. 18 (A-C)  
 (OCCURS IN THE SALT WASH FORMATION AND IN A COMPLEXLY FAULTED AREA OF QUESTIONABLE FORMATION IDENTITY)

SHOW NO. 17  
 (OCCURS IN THE SALT WASH FORMATION)

NOTE: ALL GRIDS IN THIS SHOW INCLUDED IN BIG CHIEF NO. 2 PATENTED CLAIM NO. 20019



SHOW NO. 22  
 (OCCURS IN THE WINGATE FORMATION)

NOTE: ALL GRIDS IN THIS SHOW INCLUDED IN EXCELOR PATENTED CLAIM NO. 1881 A

EXPLANATION

Jm-w	GALTWASH MEMBER	HOARSON FORMATION
Jm-wmk	WAKARUSA MEMBER	
Jm	SUMMERVILLE FORMATION	ENTRADA FORMATION
Jm	ENTRADA FORMATION	
Jm-Jk	UNDIFFERENTIATED NAVAJO & KAYENTA FORMATIONS	WINGATE FORMATION
Jw	WINGATE FORMATION	
Pre-Jw	PRE-WINGATE FORMATIONS	MAJOR FAULT OR FAULT ZONE
---	MAJOR FAULT OR FAULT ZONE	

SEE DETAIL FIGURE NO. 1 FOR ADDITIONAL SYMBOLS

DATUM IS MEAN SEA LEVEL  
 ELEVATIONS DETERMINED BY  
 LEVELLING ADJUSTED FROM U.S.  
 G.S. BENCH MARK

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 FIELD OFFICE

TITLE CARPENTER RIDGE DISTRICT  
 DOLORES PLATEAU AREA  
 ROC CREEK MINING DISTRICT  
 SHOWS NO. 16, 17, 18, 22, 23  
 SCALE: 1" = 20'  
 DATE: DECEMBER, 1944  
 DRAWN BY: G. MILLER & G. RICHARDSON  
 TRACED BY: R. WALLS  
 NOTES BY: G. MILLER & G. RICHARDSON  
 Colo-dp-89

