CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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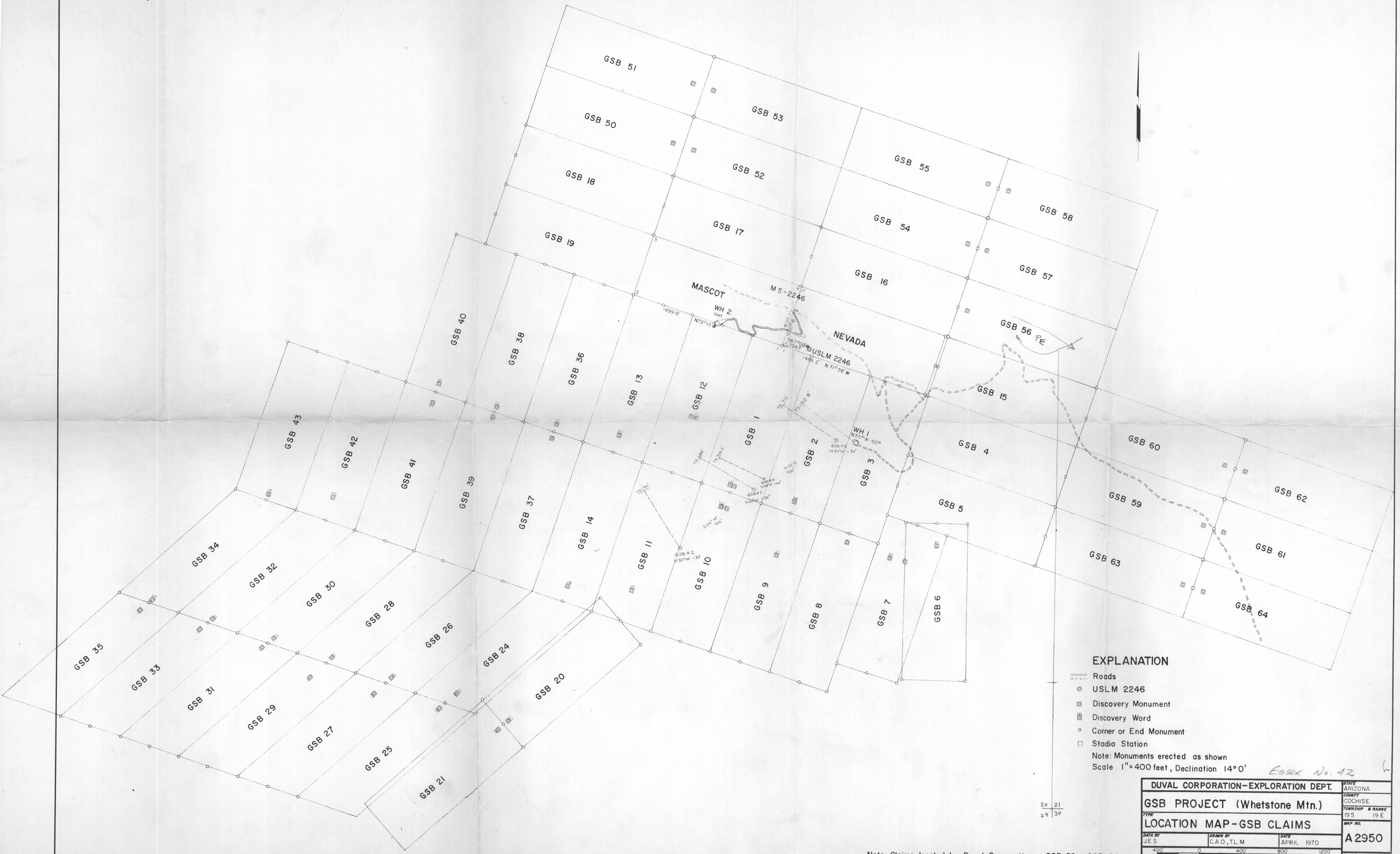


EXPLANATION

- Roads
- USLM 2246
- Discovery Monument
- Discovery Word
- Corner or End Monument
- Stadia Station

Note: Monuments erected as shown.

Scale 1" = 400 feet, Declination 14° 0'

Essex No. 42

Note: Claims located by Duval Corporation GSB 50 – GSB 64

DUVAL CORPORATION–EXPLORATION DEPT.	STATE: ARIZONA
GSB PROJECT (Whetstone Mtn.)	COUNTY: COCHISE
TYPE: LOCATION MAP-GSB CLAIMS	TOWNSHIP & RANGE: 19 S 19 E
DATA BY: J.E.S. / DRAWN BY: C.A.O., T.L.M. / DATE: APRIL 1970	MAP NO.: A 2950
400 0 400 800 1200 1" = 400 FEET	PLATE NO.

K+E ALBANENE TRACING PAPER 3825 A.J

GSB PROPERTY – COCHISE COUNTY

WHETSTONE MOUNTAINS
ARIZONA

GROUND MAGNETOMETER PROFILE

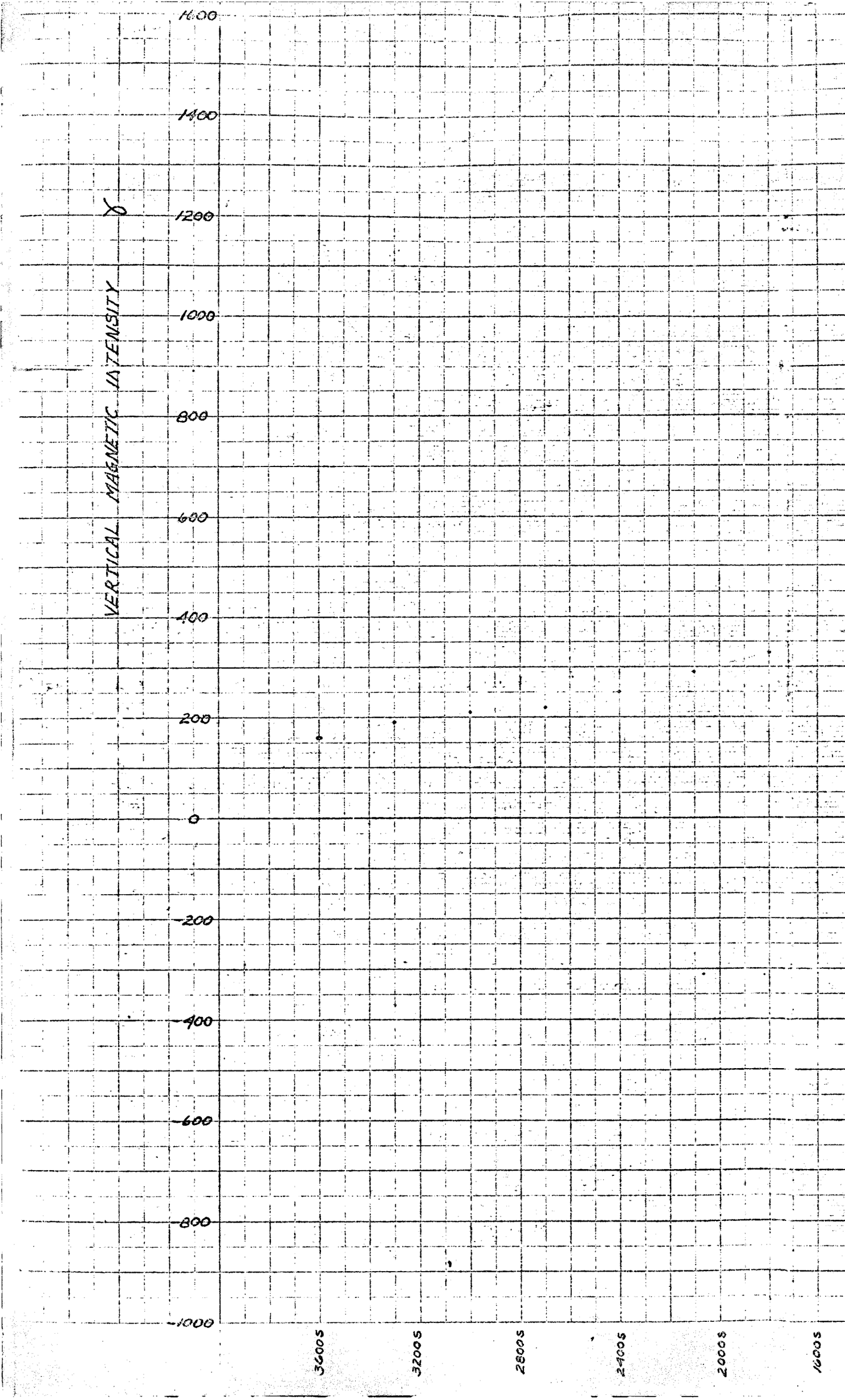
VERTICAL SCALE : 1" = 200 GAMMAS

HORIZONTAL SCALE : 1" = 400 FEET

FILE NO. AX-AR-174

AUGUST, 1963 HDK

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY


VERTICAL MAGNETIC INTENSITY γ
1600
1400
1200
1000
800
600
400
200
0
-200
-400
-600
-800
-1000
3600S
3200S
2800S
2400S
2000S
1600S

1600S

1200S

800S

400S

0 SW CORNER GSB 44

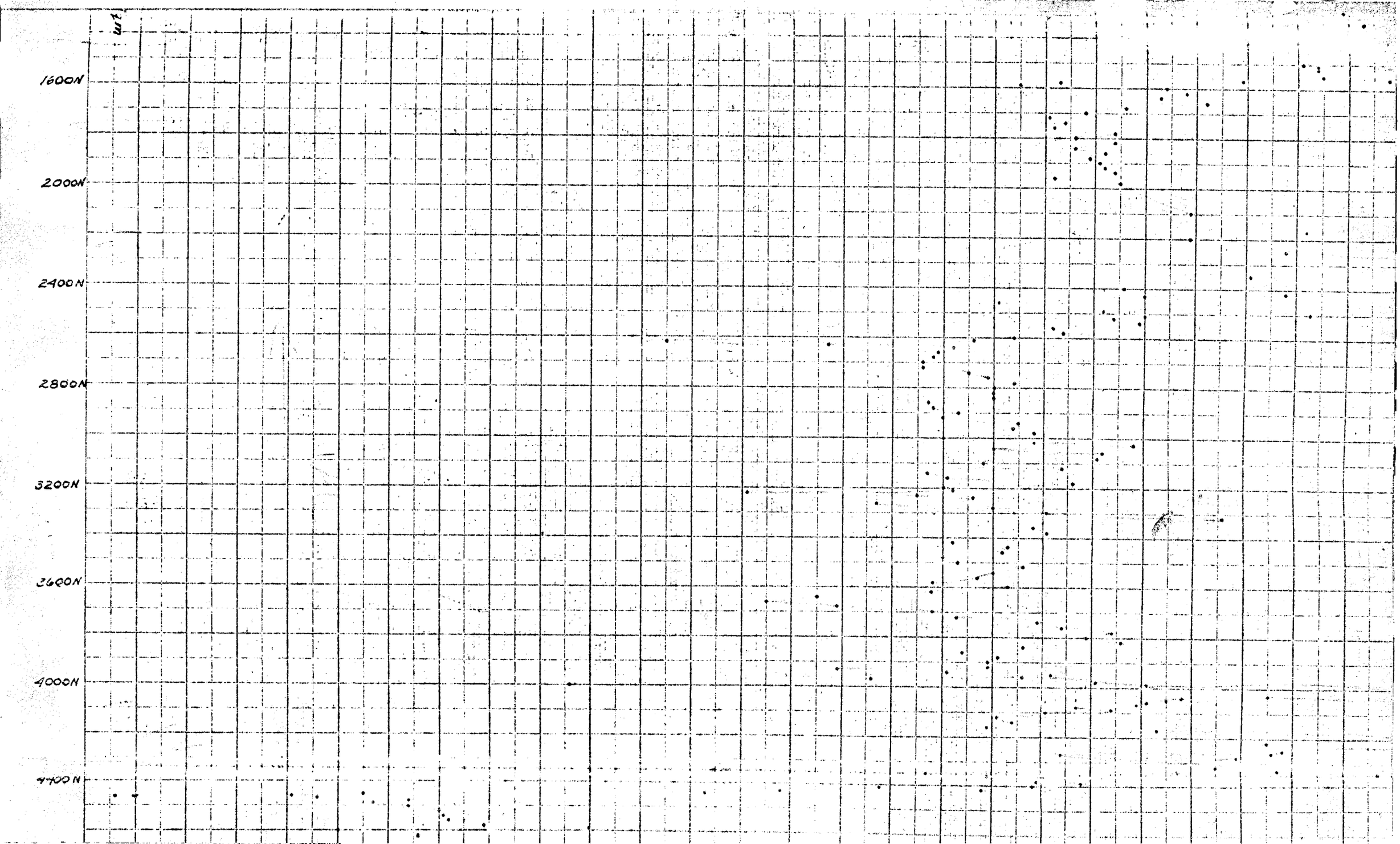
400N

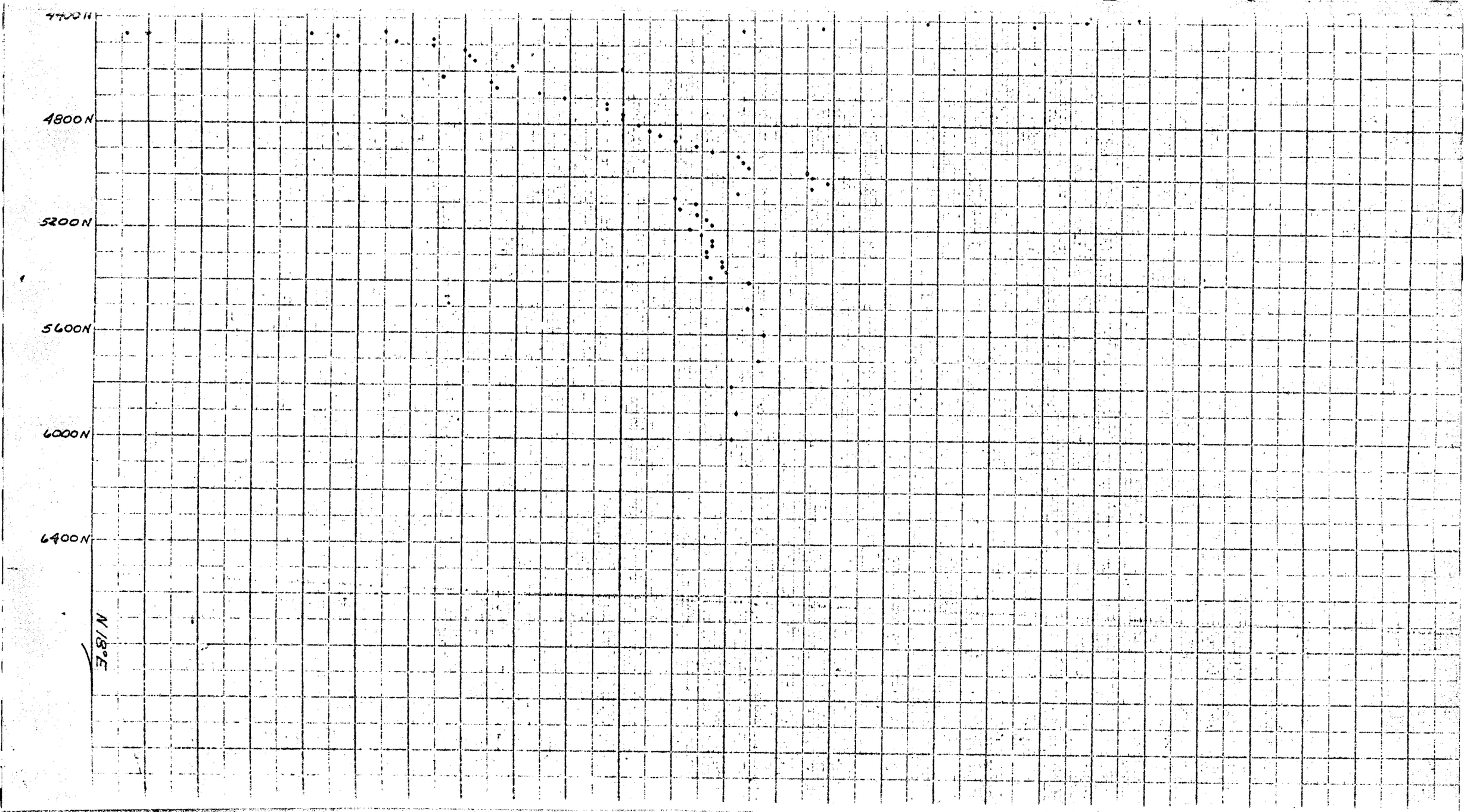
800N

1200N

Tgp

Tgm


1600N
2000N
2400N
2800N
3200N
3600N
4000N
4400N


4400N
4800N
5200N
5600N
6000N
6400N
N 18°E

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CORRECT, WE MAKE NO REPRESENTATION WITH
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THE NEW JERSEY ZINC COMPANY

GSB PROPERTY – COCHISE COUNTY

WHETSTONE MOUNTAINS
ARIZONA

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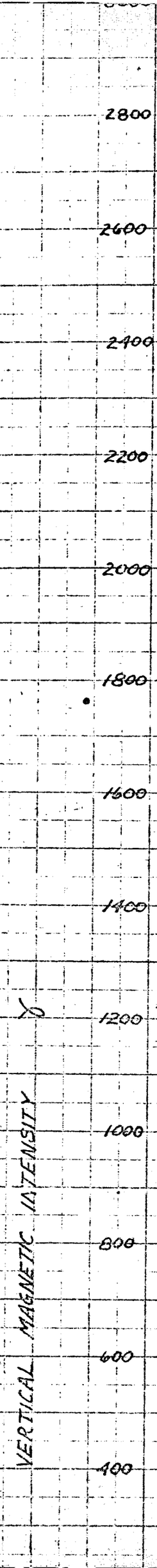
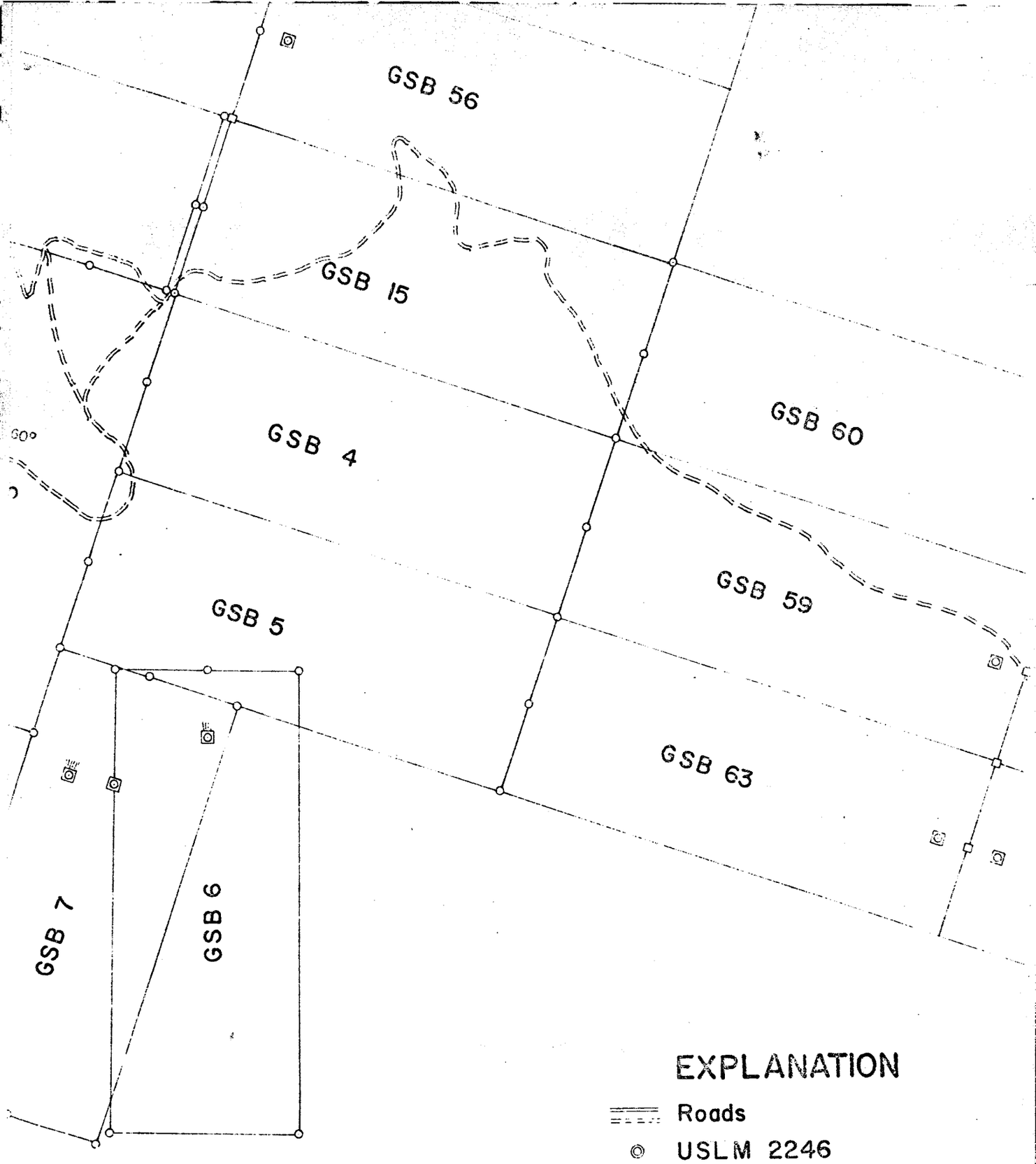




EXPLANATION

- Roads
- USLM 2246
- Discovery Monument
- Discovery Word
- Corner or End Monument
- Stadia Station

Note: Monuments erected as sh

Scale 1" = 400 feet, Declinatio

DUVAL CORPO

GSB PROJE

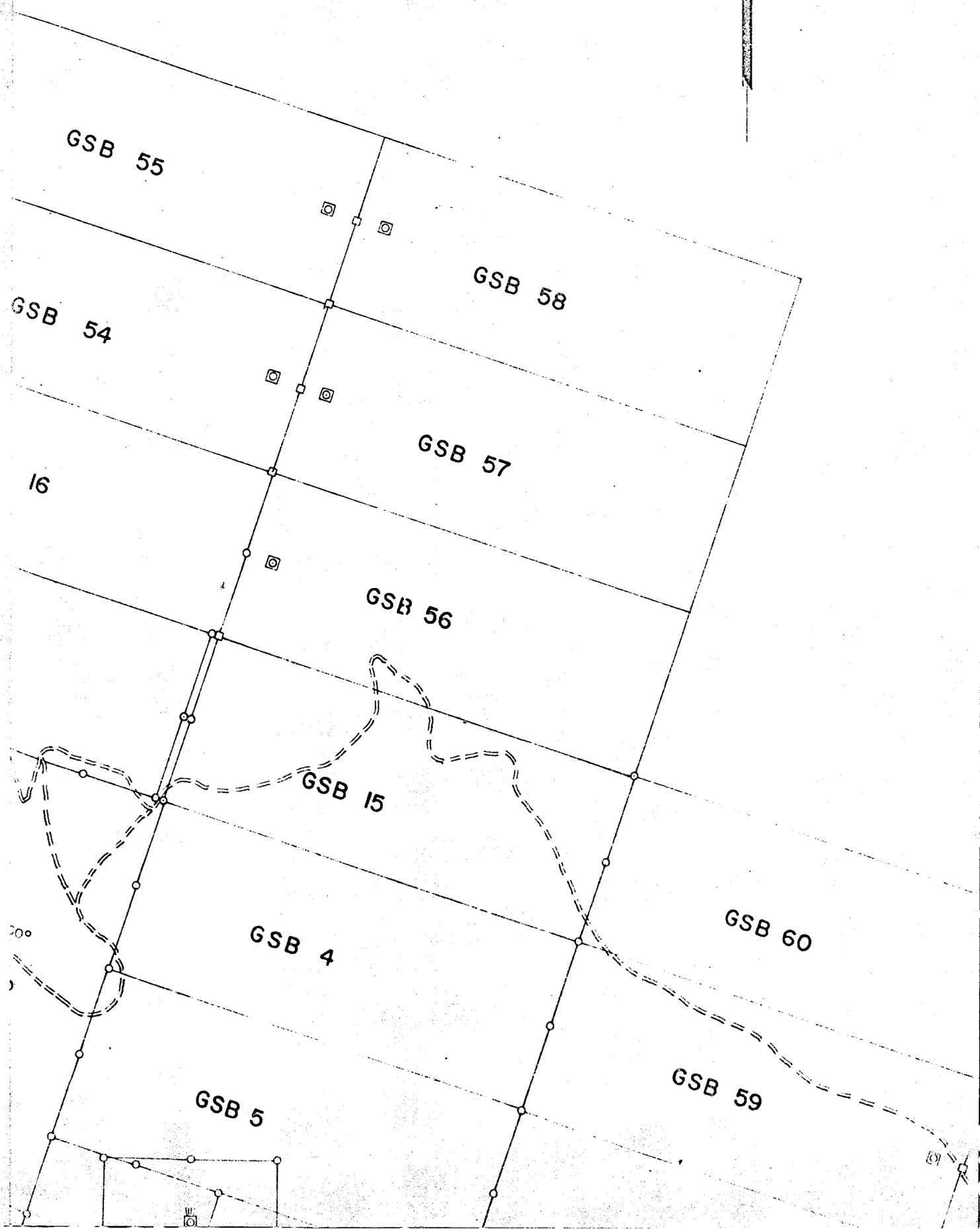
TYPE

LOCATION M

DATA BY

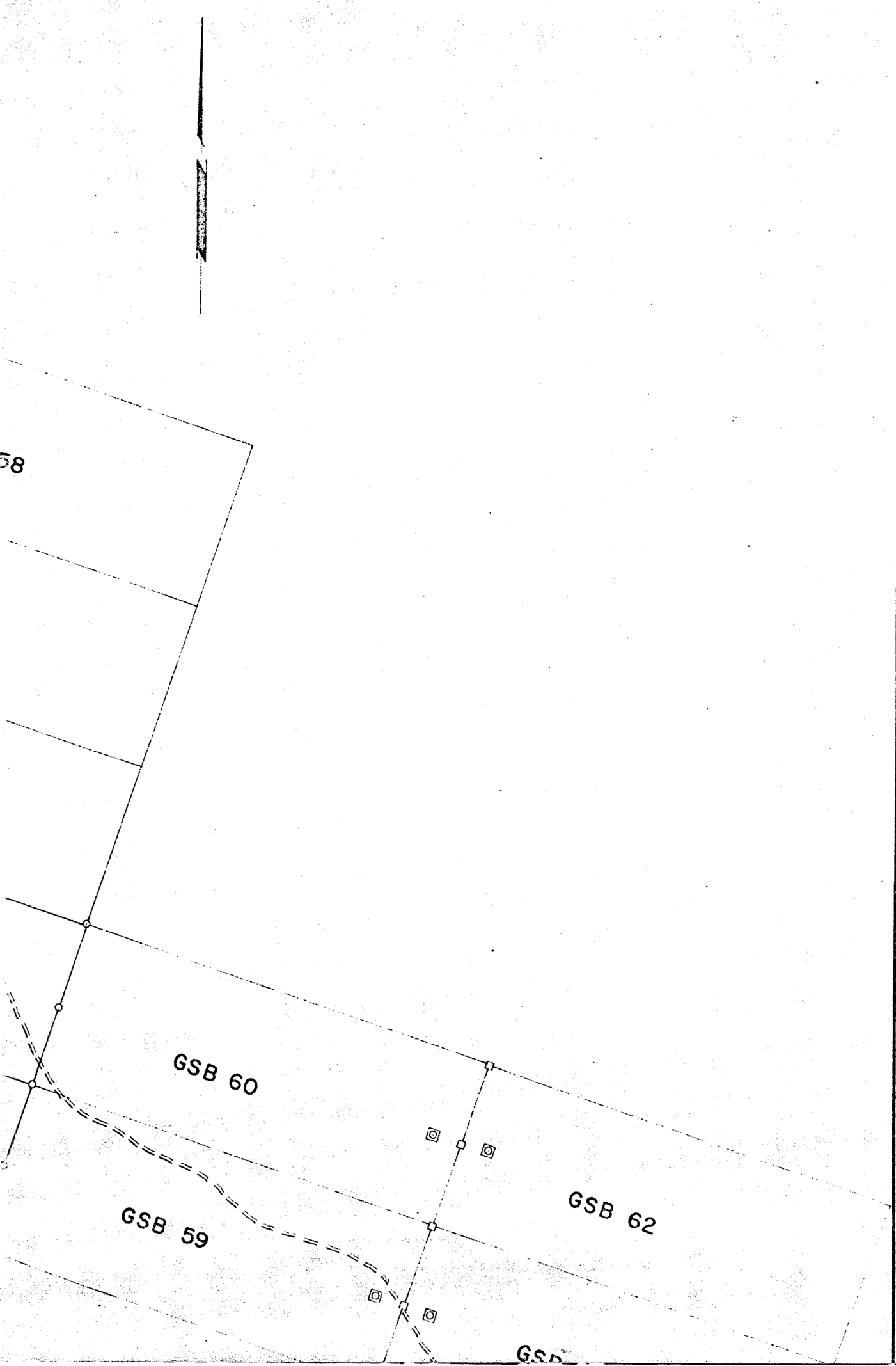
JES

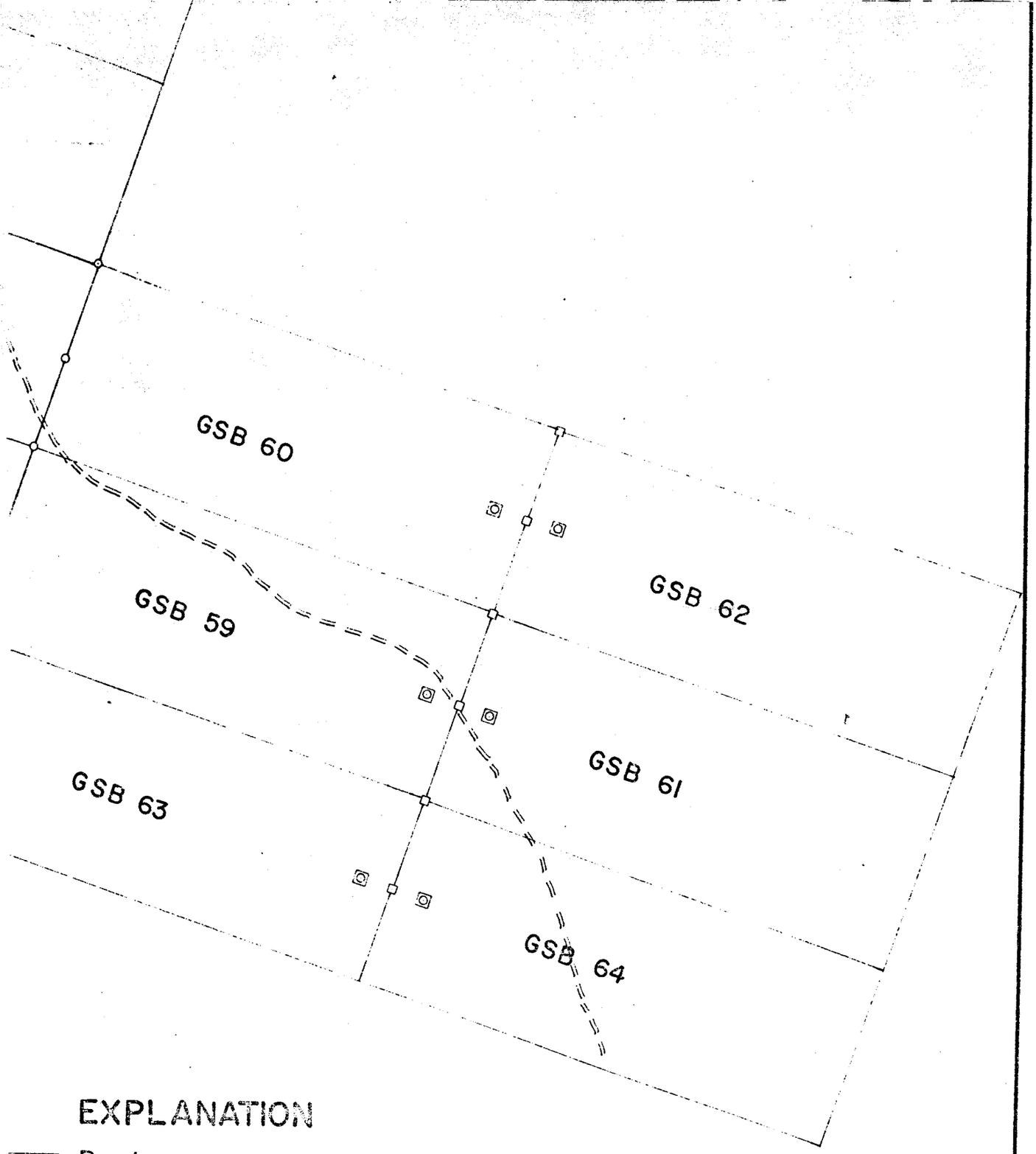
Note: Claims located by Duval Corporation GSB 50 – GSB 64


GSB 55
GSB 58
GSB 54
GSB 57
16
GSB 56
GSB 15
GSB 60
GSB 4
GSB 59
GSB 5

K&E ALBANENE TRACING PAPER LA 2586

GSB 43


58
GSB 60
GSB 59
GSB 62



EXPLANATION

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- Discovery Monument
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Note: Monuments erected as shown.
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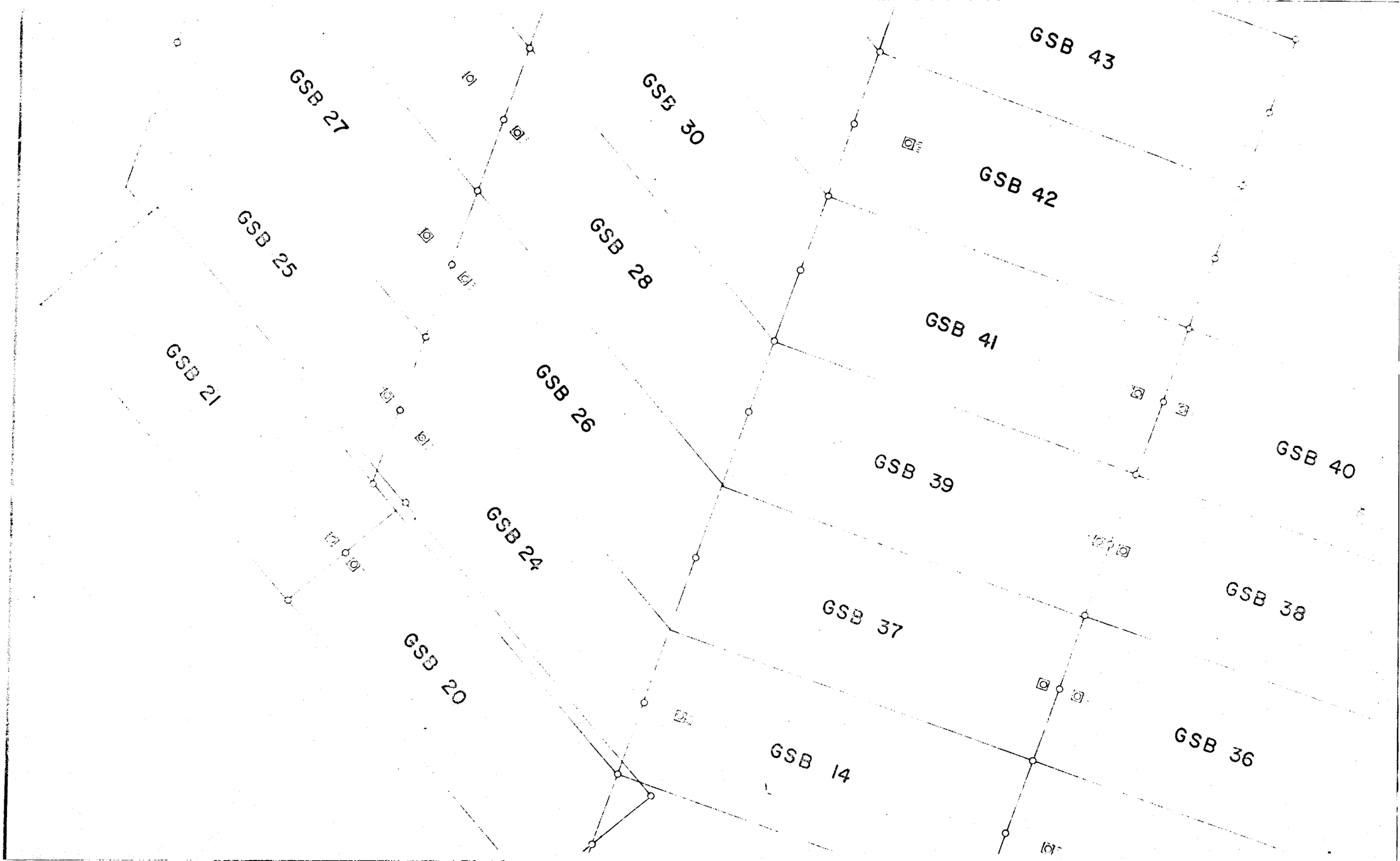
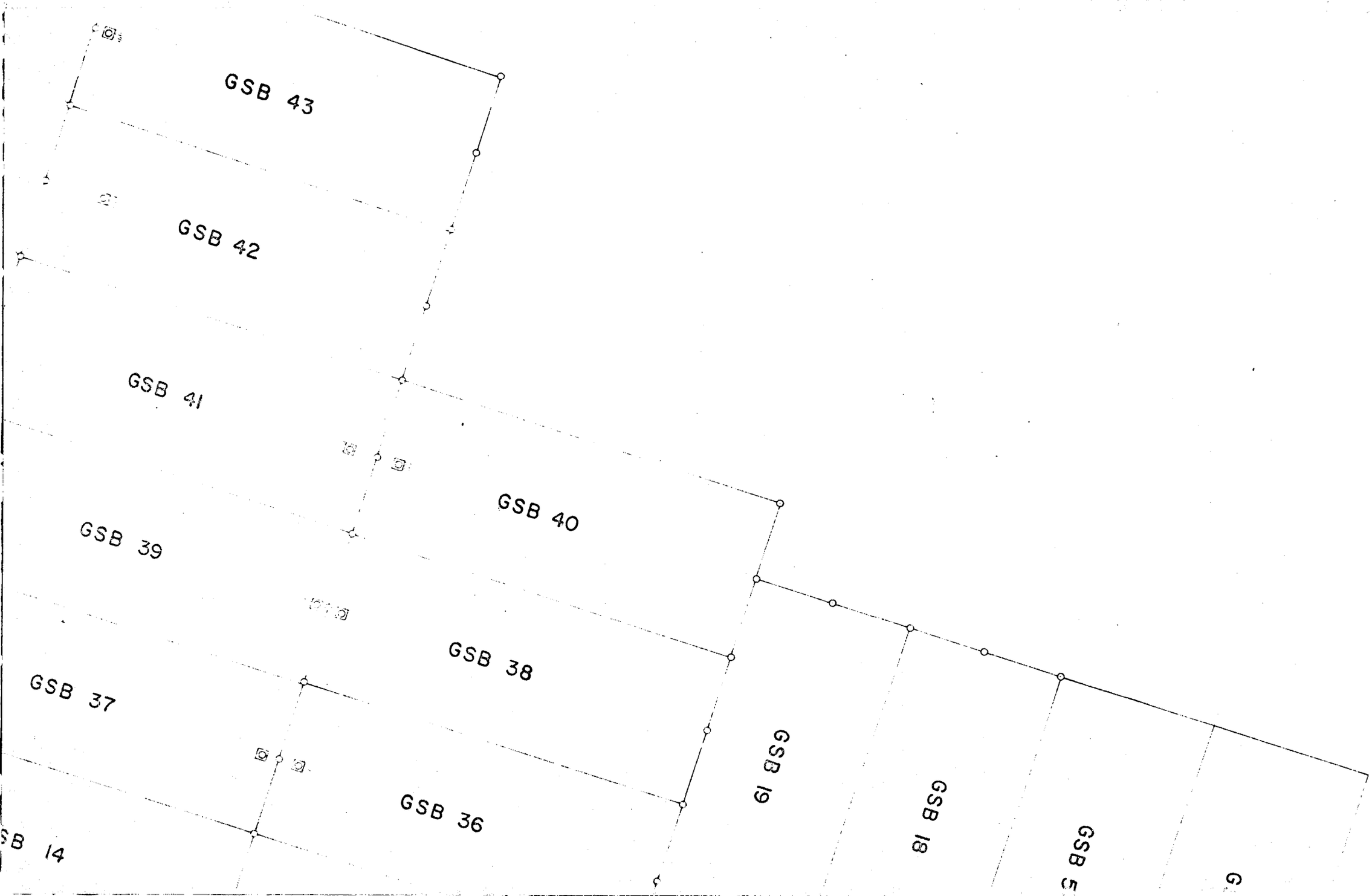
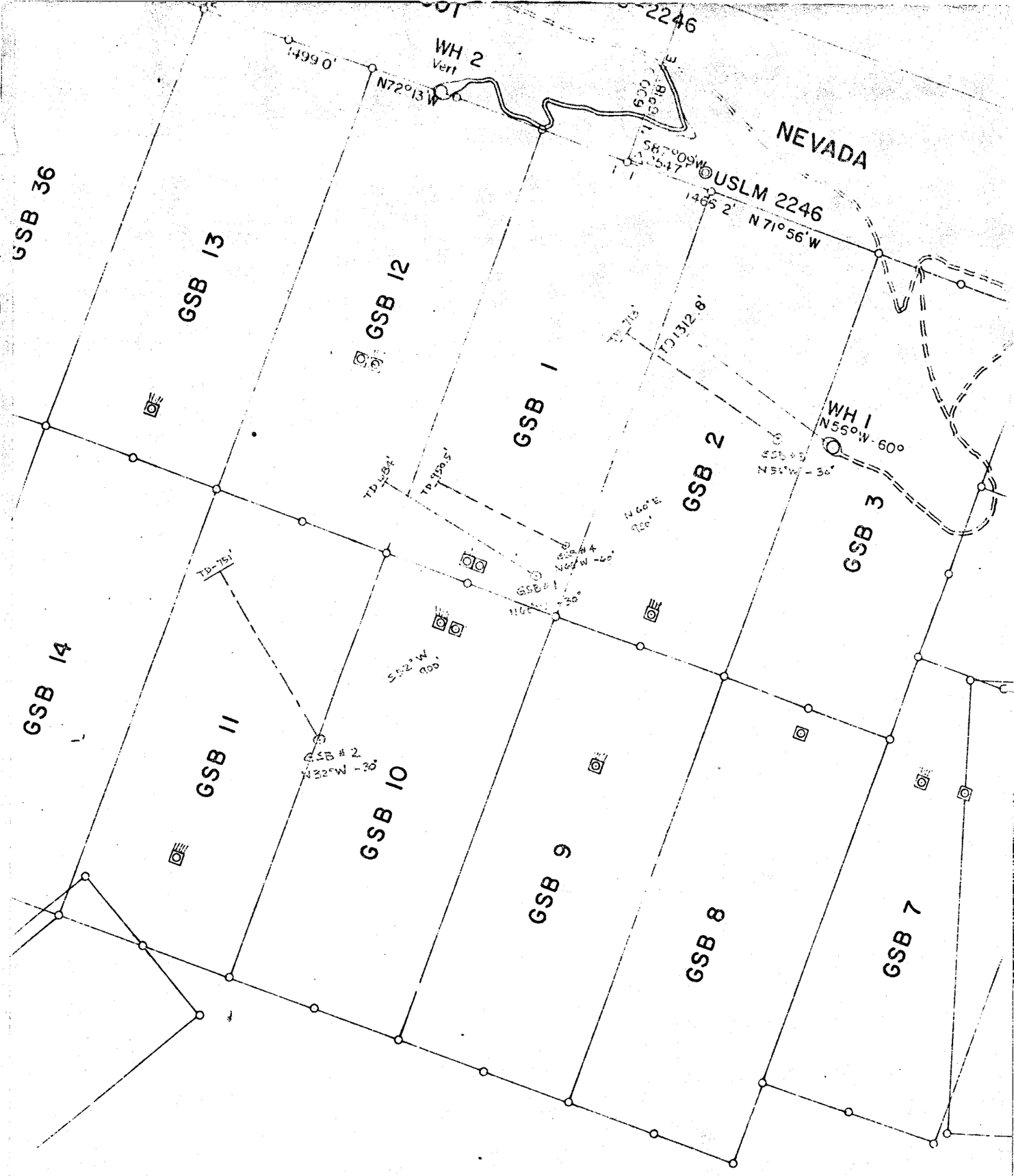
DUVAL CORPORATION-EXPLORATION DEPT.			STATE ARIZONA
GSB PROJECT (Whetstone Mtn.)			COUNTY COCHISE
TYPE LOCATION MAP-GSB CLAIMS			TOWNSHIP & RANGE 19 S 19 E
DATA BY J.E.S.	DRAWN BY C.A.O., T.L.M.	DATE APRIL 1970	MAP NO. A 2950
400 0 400 800 1200 1" = 400 FEET			PLATE NO.

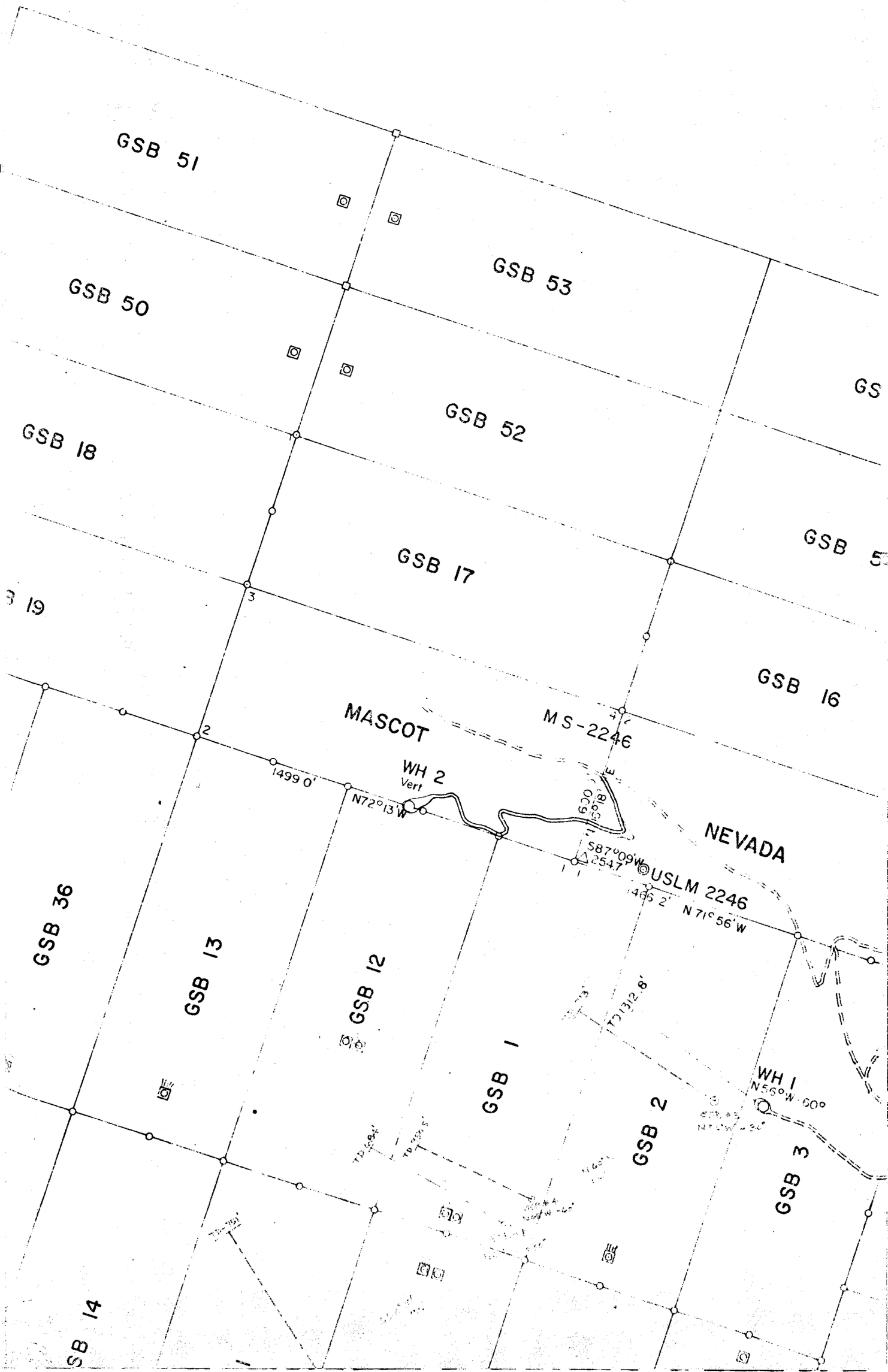
D – GSB 64


GSB 43
GSB 42
GSB 41
GSB 40
GSB 39
GSB 38
GSB 37
GSB 36
GSB 14
GSB 30
GSB 28
GSB 27
GSB 26
GSB 25
GSB 24
GSB 21
GSB 20

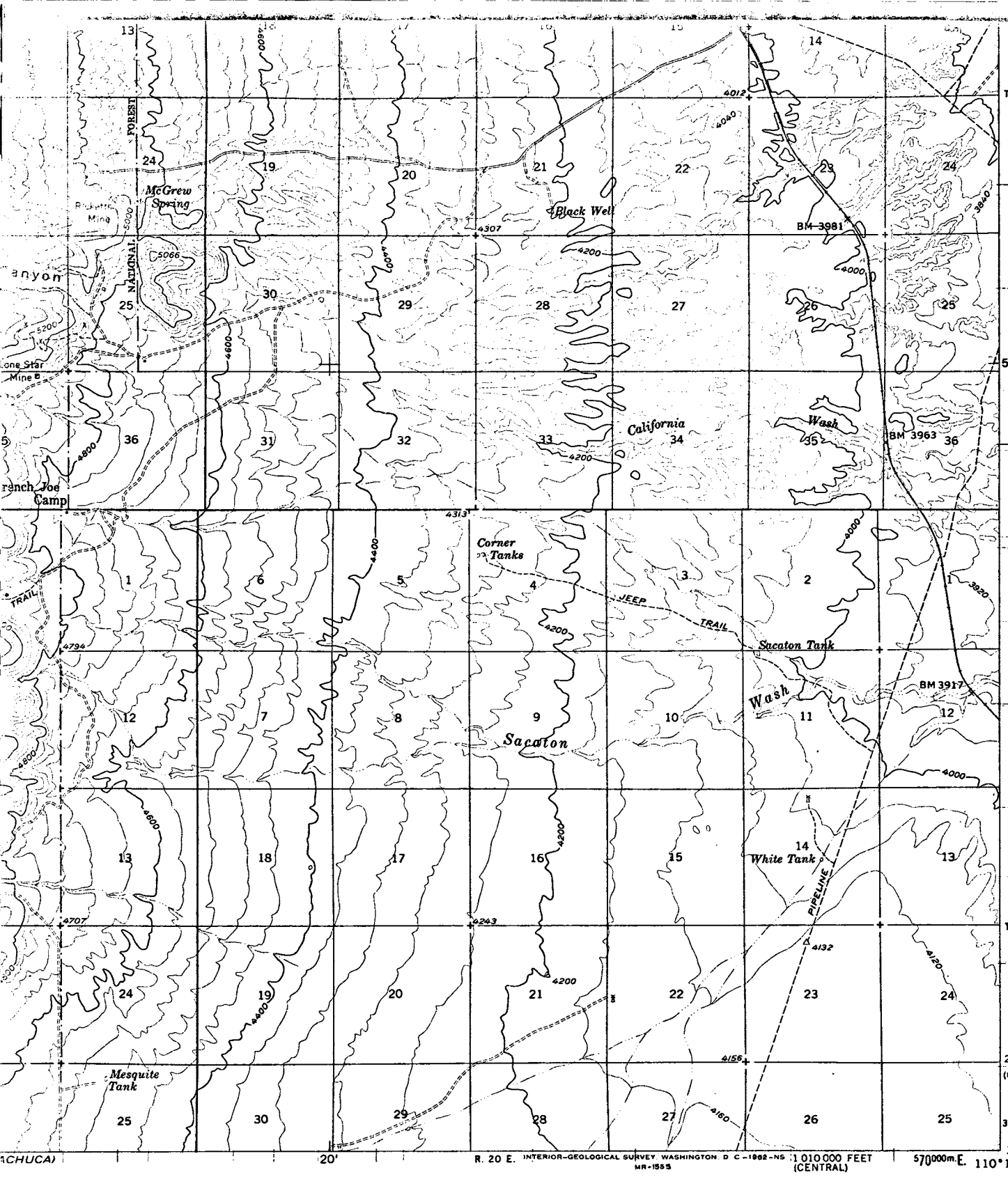

GSB 43
GSB 42
GSB 41
GSB 40
GSB 39
GSB 38
GSB 37
GSB 36
GSB 19
GSB 18
SB 14



Note: Claims lc


GSB 51
GSB 50
GSB 53
GSB 52
GSB 18
GSB 17
GSB 16
MASCOT
MS-2246
WH 2
Vert
1499.0'
N72°13'W
S87°09'W
2547
USLM 2246
465.2'
N71°56'W
NEVADA
GSB 36
GSB 13
GSB 12
GSB 1
GSB 2
GSB 3
WH 1
N55°W 60°
GSB 14

T. 18 S.
50'
T. 19 S.
280 000
FEET (EAST)
31°45'
110°30'
R. 18 E.
400 000 FEET (EAST)
25'
R. 19 E.
(ELGIN)
(FORT H
Montosa
Canyon
Coyote Spring
Willow Canyon
Apache Spring
Apache
Fresno Canyon
Canyon
Willow Spr
Wood Canyon
Shellenberger
Canyon
Wild Cow Canyon
Wild Cow Spring
Death Trap Spring
Death Trap Canyon
Bear Spring Canyon
Water Spring
Mud Spr
Canyon
Water Tank
Goat Spring
Cottonwood Peak
Spring
Guindani
Spring
Dripping Spr
Apache Peak
Lone Pine Saddle
French Joe Peak
French Joe Spring
Canyon
Glenn Spr
Granite Peak
Water Tank
Canyon
Water Tanks
Canyon
VABM 6628
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by ER-55 plotter
Aerial photographs taken 1955. Field check 1958
Polyconic projection. 1927 North American datum
10,000-foot grids based on Arizona coordinate system
east and central zones
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Red tint indicates areas in which only landmark buildings are shown
Dashed land lines indicate approximate locations
Land lines unsurveyed in parts of T. 19 S.–R. 19 E.
Unchecked elevations are shown in brown
13°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN
DECLINATION, 1958
SCALE
CONTOUR INT
DATUM IS M
THIS MAP COMPLIES WITH NA
FOR SALE BY U. S. GEOLOGICAL SURVEY. DE
A FOLDER DESCRIBING TOPOGRAPHIC MA



62500

2 3 4 MILES

12000 15000 18000 21000 FEET

3 4 5 KILOMETERS

VAL 40 FEET
SEA LEVEL

ROAD CLASSIFICATION

Heavy-duty — Light-duty

Medium-duty — Unimproved dirt

U. S. Route — State Route

ARIZONA

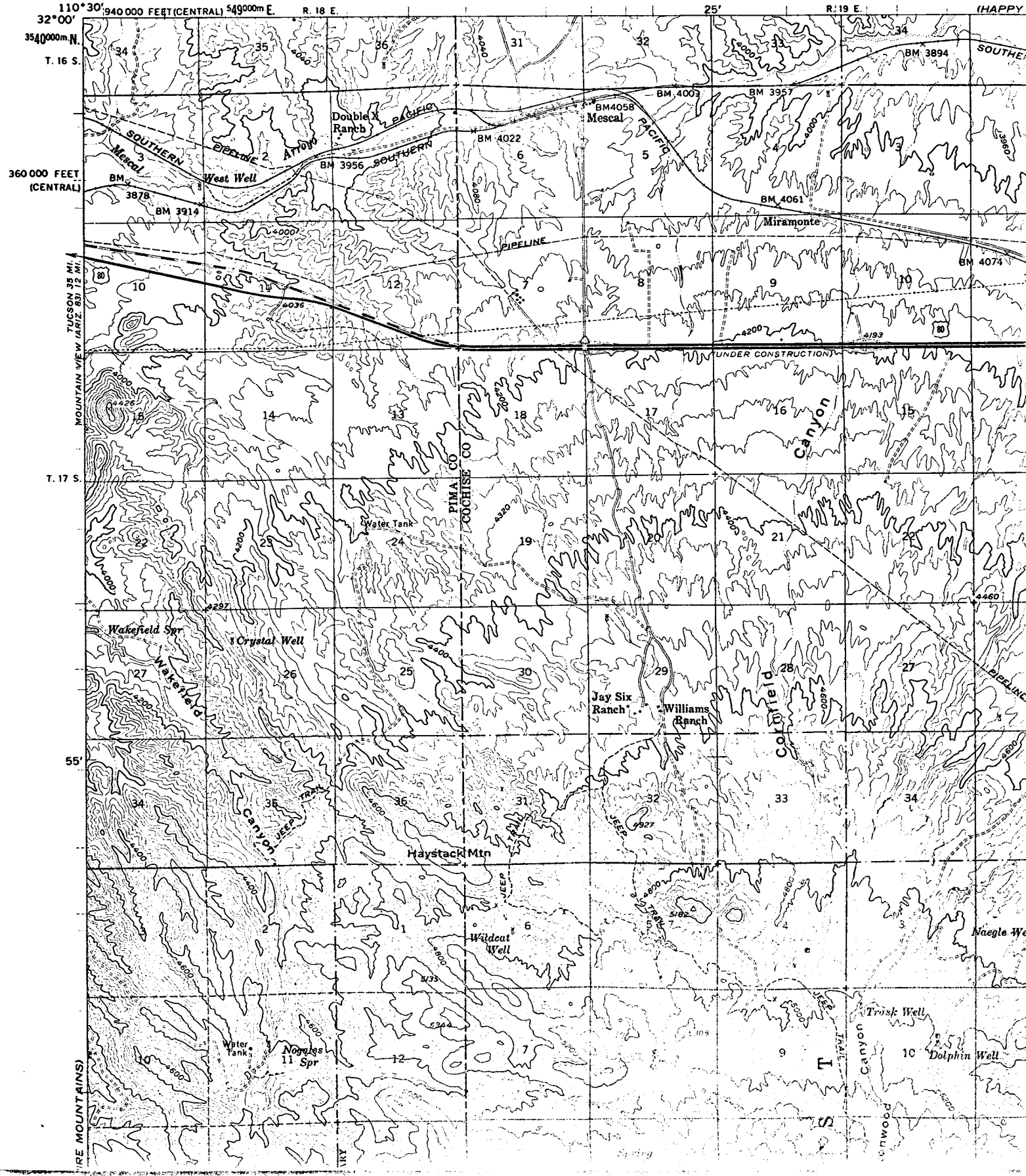
QUADRANGLE LOCATION

AL MAP ACCURACY STANDARDS
ER 25, COLORADO OR WASHINGTON 25, D. C.
AND SYMBOLS IS AVAILABLE ON REQUEST

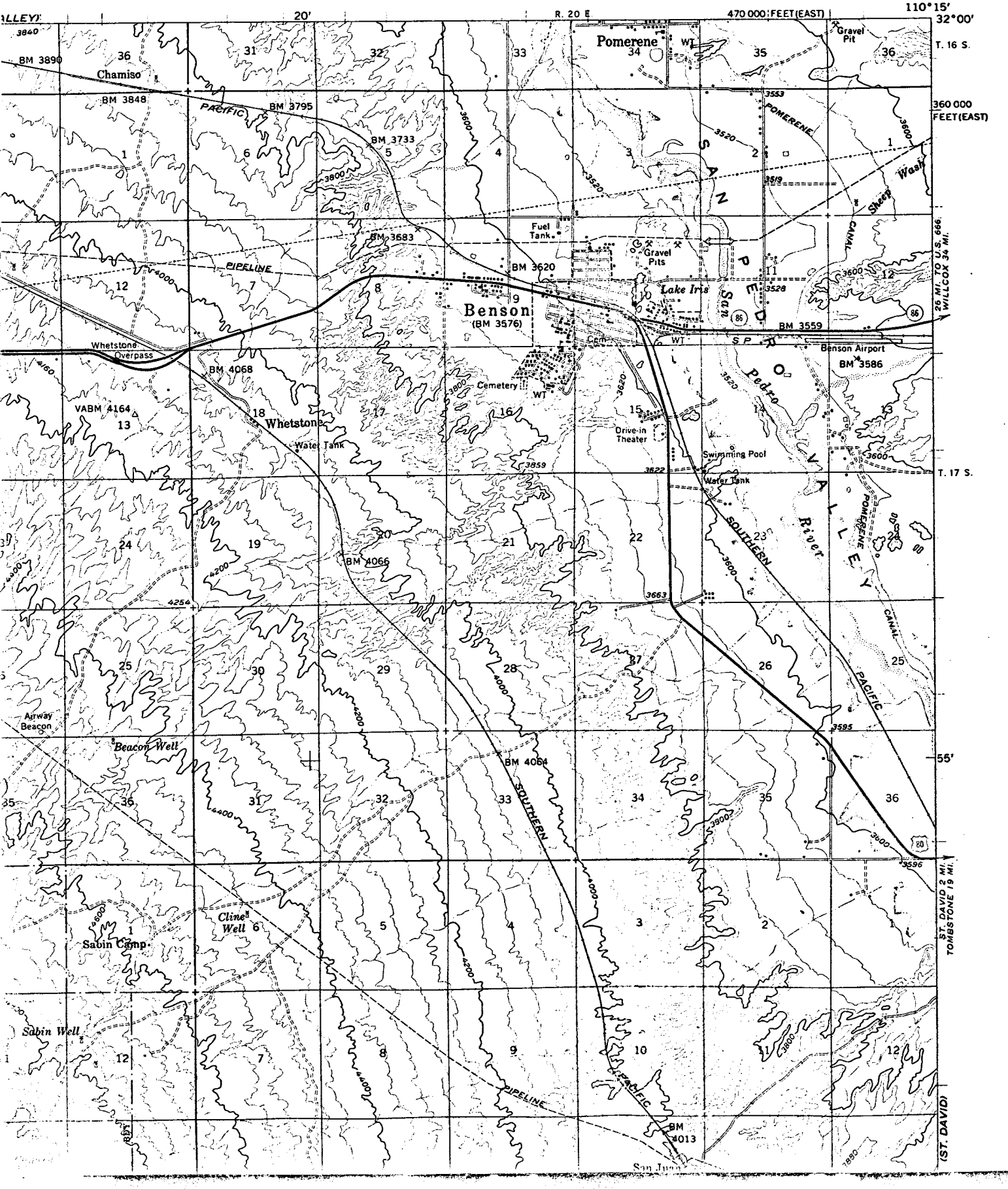
BENSON, ARIZ.
N3145—W11015/15

1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



BENSON QUADRANGLE
ARIZONA
15 MINUTE SERIES (TOPOGRAPHIC)



THE NEW JERSEY ZINC COMPANY
(ESTABLISHED 1848)
160 FRONT STREET
NEW YORK, NEW YORK 10038

NJZ

January 15, 1969

PLEASE ADDRESS REPLY TO
Pima Plaza Building
2030 East Broadway
Tucson, Arizona 85719

Mr. George Kalaf
P. O. Box 5853
Tucson, Arizona 85703

GSB PROPERTY
WHETSTONE MINING DISTRICT
COCHISE COUNTY, ARIZONA

Dear Mr. Kalaf:

Enclosed herewith is a duplicate copy of the factual data pertaining to the GSB property, as requested in your telephone conversation with Mr. Radabaugh. Data enclosed are noted in the following tabulation:

1. Log of Diamond Drill Hole GSB #1, with copies of assay returns and core recovery.

2. Log of Diamond Drill Hole GSB #2 with copies of assay returns and core recovery.

3. Log of Diamond Drill Hole GSB #3 with copies of assay returns and core recovery.

4. Log of Diamond Drill Hole GSB #4 with copies of assay returns and core recovery.

5. Section through DDH GSB #1 - Map AX-AR-171

6. Section through DDH GSB #2 - Map AX-AR-172

7. Section through DDH GSB #3 - Map AX-AR-173

8. Section through DDH GSB #4 - Map AX-AR-184

9. Ground Magnetometer Profile - Map AX-AR-174

10. Induced Polarization Date - 3 - Profiles
2 - Expanders

11. Geology of GSB Property - Map AX-AR-161

Sincerely,

D. C. Bulmer
Regional Geologist

DCB:kk

While we believe this information to be correct, we make no representation with respect to, nor do we assume any responsibility for, the correctness thereof.
THE NEW JERSEY ZINC COMPANY

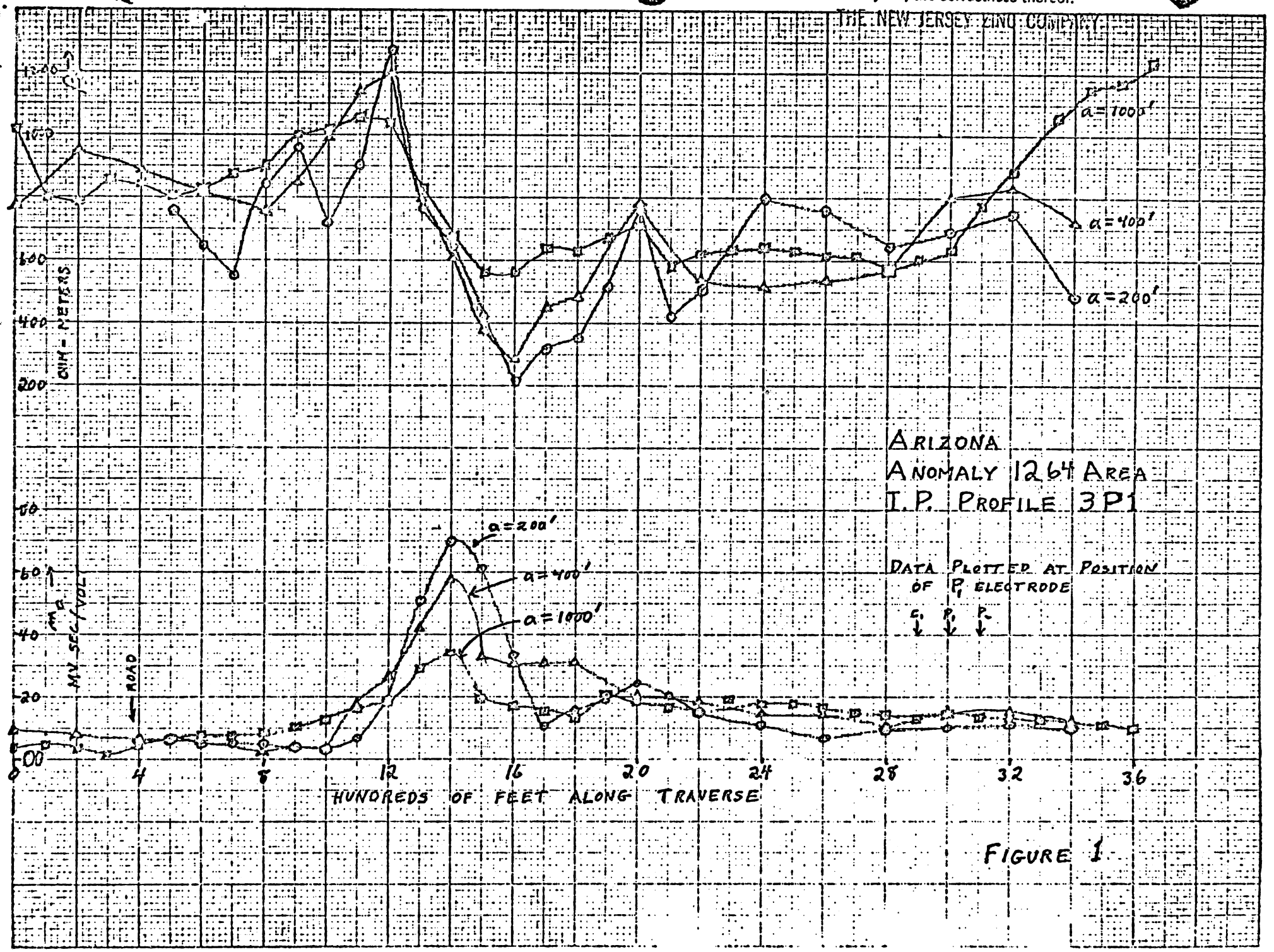


FIGURE 1

believe this information to be correct, we make no representation with respect to, nor do we assume any responsibility for, the correctness thereof.
THE NEW JERSEY ZINC COMPANY

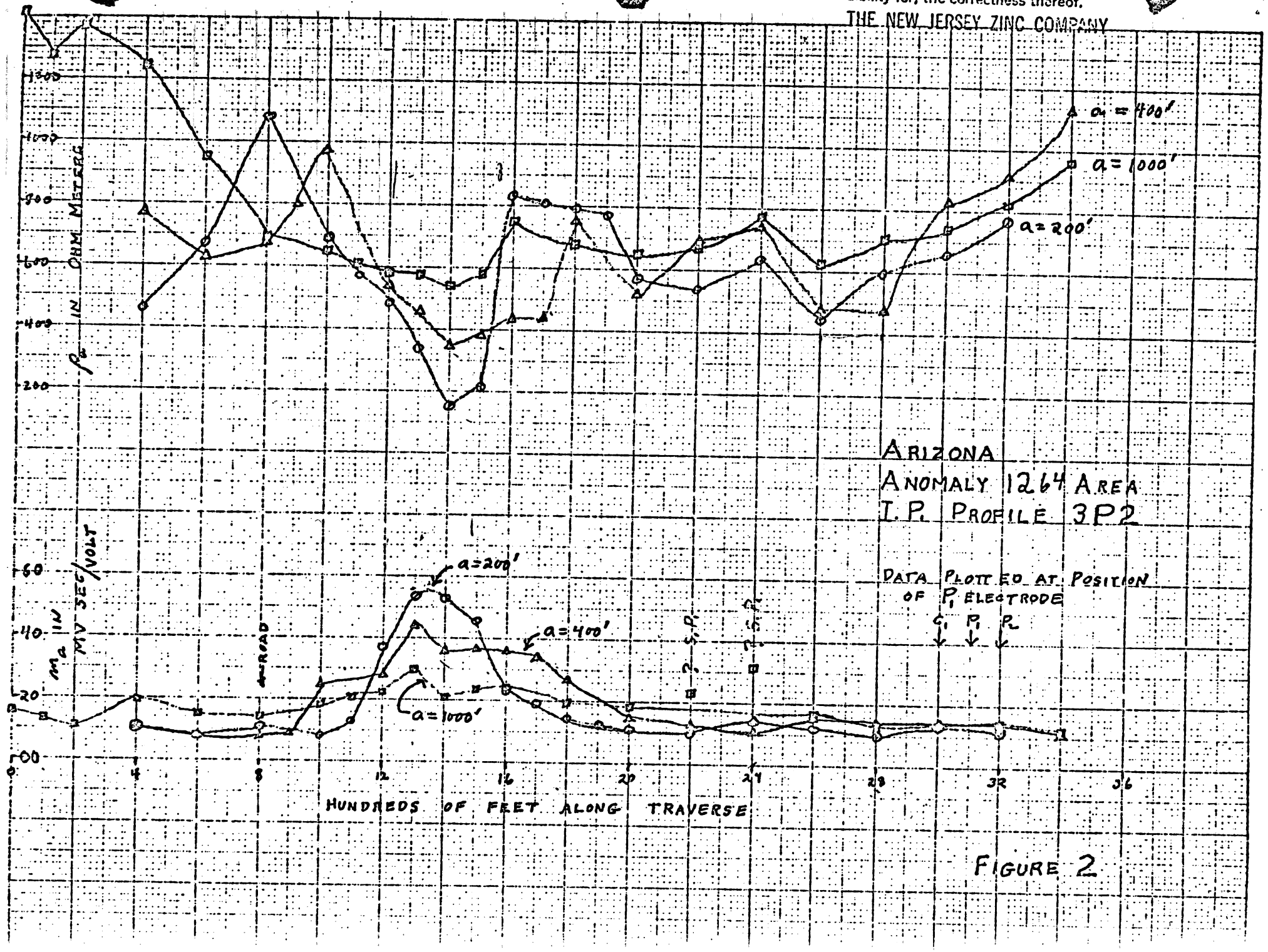


FIGURE 2

CODEX BOOK COMPANY, INC. 100 BY 200 DIVISIONS.

While we believe this information to be correct, we make no representation with respect to, nor do we assume any responsibility for, the correctness thereof.

THE NEW JERSEY ZINC COMPANY

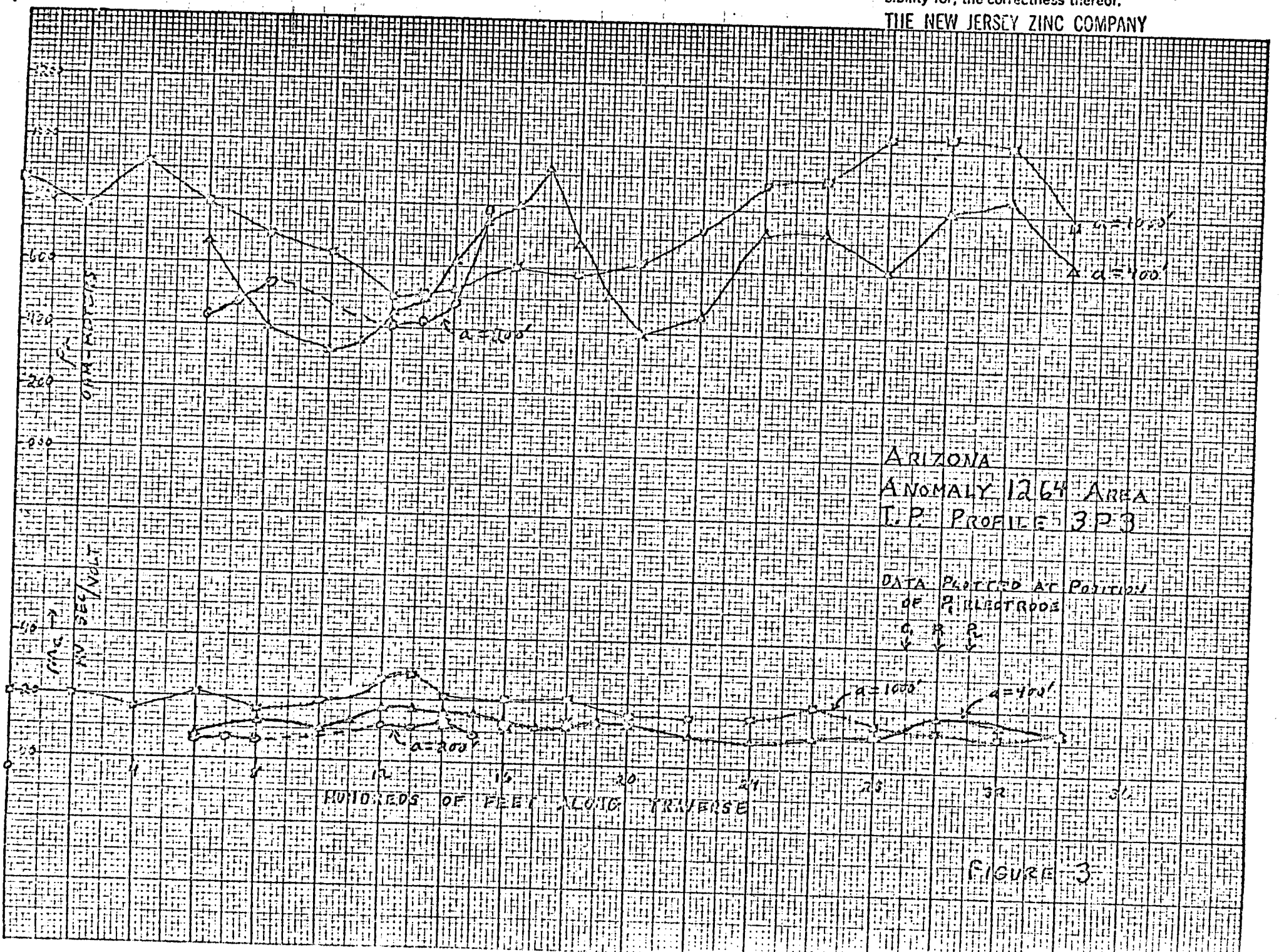


FIGURE 3

NO. 31.258. LOGARITHMIC: 3 BY 4 2½-INCH CYCLES. CODEX BOOK COMPANY, INC., NORWOOD, MASSACHUSETTS. PRINTED IN U.S.A.

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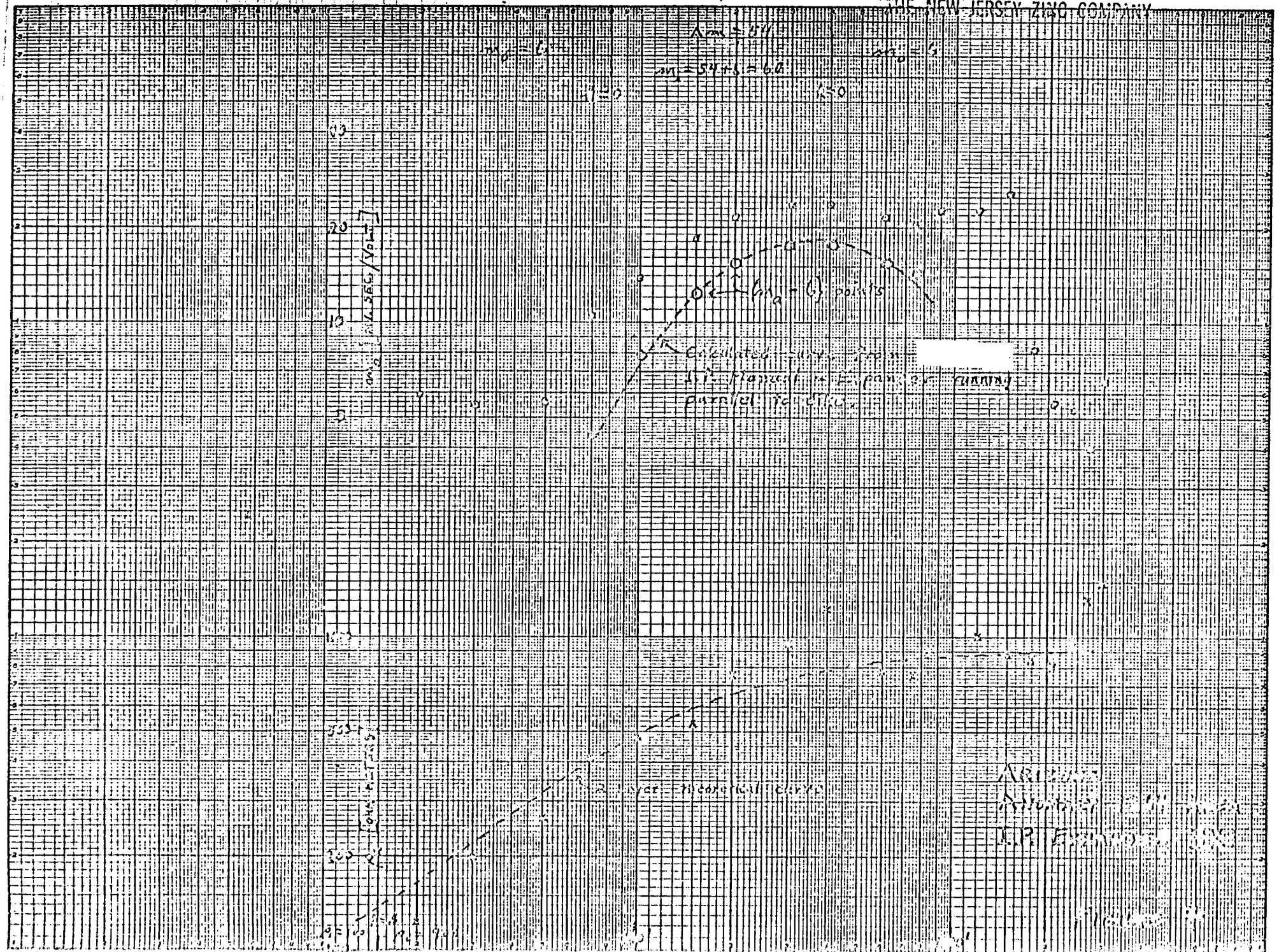
THE NEW JERSEY ZINC COMPANY



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respect to, nor do we assume any respo
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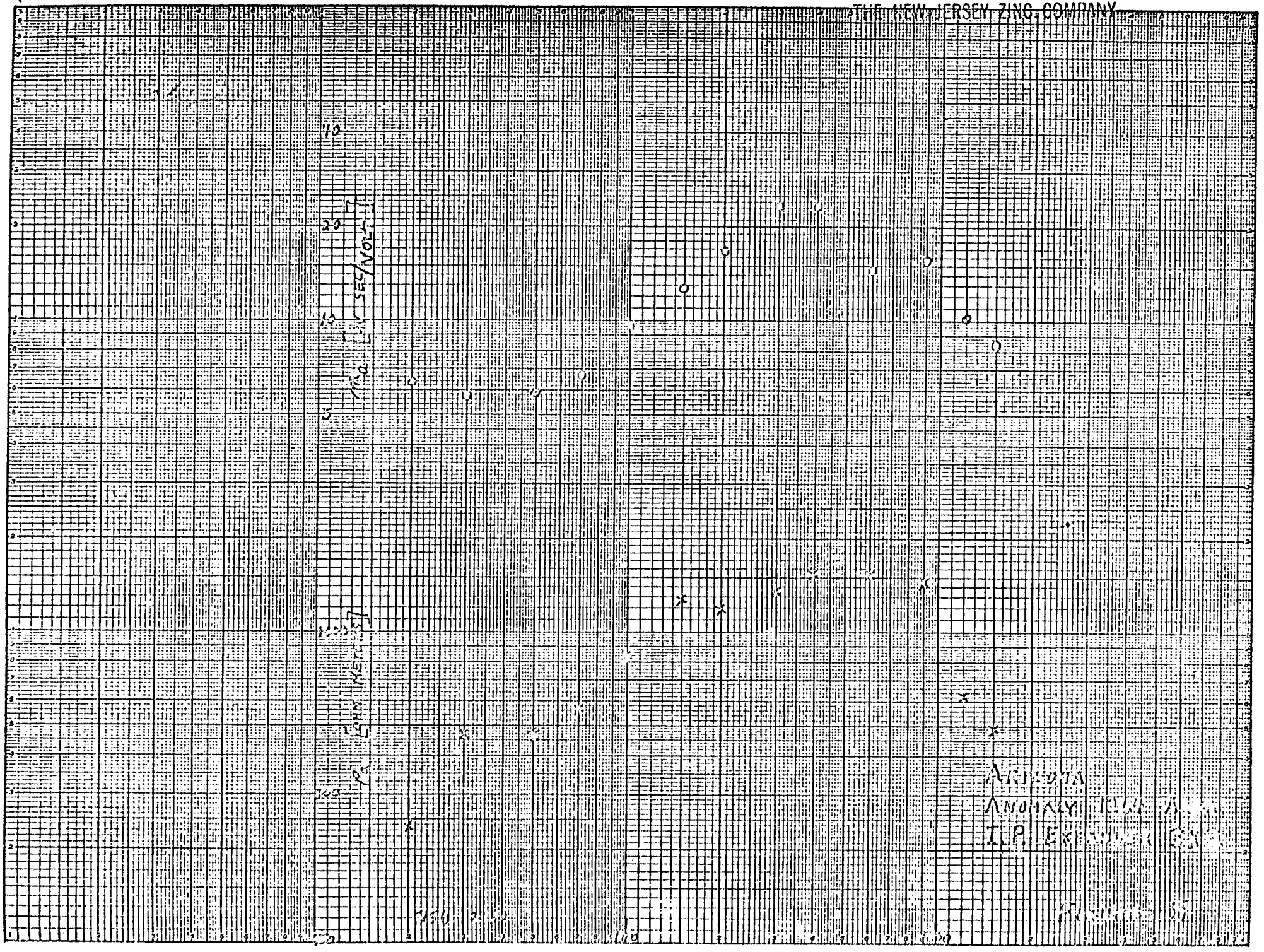

NJZ DRILL HOLE ASSAYS

	Interval	Thickness	Ave. Cu	Ave. Mo
Hole #1	10 - 100	= 90.0'	.09	.001
	100 - 500	= 400'	.33	.007
	500 - 666	= 166'	.08	.002
Hole #2	8 - 210	= 202'	.13	
	210 - 256	= 46'	.31	
	256 - 751	= 495'	.12	
Hole #3	10 - 407	= 397'	.07	
	407 - 529	= 122'	.28	
	529 - 646	= 117'	.06	
Hole #4	10 - 220	= 210'	.08	.011
	220 - 552	= 332'	.33	.024
	552 - 950.5	= 398.5'	.17	

Calculated by J. E. Shearer

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934
TUCSON, ARIZONA
Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

Representatives at

IDENTIFICATION		Gold ozs	Silver ozs	Lead %	Copper %	Ox Copper %	Zinc %	Mo %		
GSB#1	INTERVAL									
B-1	10-20	Trace	Trace		0.05			None		
2	20-30'	Trace	0.10		0.14			0.003		
3	30-40'	None	Trace		0.09			None		
4	40-50'	Trace	Trace		0.06			0.002		
5	50-60'	Trace	Trace		0.04			0.002		
6	60-70'	None	Trace		0.05			None		
7	70-80	None	Trace		0.11			0.002	1.100	
8	80-90	0.005	Trace		0.14			None	1.400	
9	90-100	0.006	Trace		0.11	0.08		0.002	1.100	
10	100-110'	Trace	Trace		0.21	0.13		0.002	2.100 3.100	
11	110-120'	Trace	Trace		0.31	0.19		0.009	3.100	
12	120-130	Trace	0.10		0.31	0.23		0.005		
13	130-135	Trace	0.06		0.23	0.12		0.001	1.15	102' 0.42 Cut min. 4 pts.
14	135-142	Trace	Trace		0.31	0.21		0.002	2.17	
15	142-152	Trace	0.06		0.45	0.43		0.002	4.50	
16	152-164	Trace	0.10		0.57	0.57		0.005	6.340	
17	164-173	None	Trace		0.73	0.04		0.016	7.290	
18	173-182	Trace	Trace		0.40	0.01		0.002	3.600	
19	182-192	Trace	Trace		0.33			0.003	3.300	
20	192-202	Trace	Trace		0.53			0.012	5.900	
21	202-212	Trace	0.06		0.19			0.002	1.900	
22	212-223	Trace	0.10		0.17			None	1.870	
23	223-236	Trace	0.06		0.42			None	5.460	
24	236-246	Trace	0.14		0.28	0.16		None	2.800	

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THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY

REMARKS:

Sb on samples 17 and 20 to follow

Special

Analysis Cert. By P Richard

Drying 8 spls 2.80
Preparation $ 18.00
Analysis $ 218.25

ACC: NEW JERSEY ZINC COMPANY

Date Spl. Received 8/29/63 | Date Compl. 9/4/63 | TUC 319097 | $ 239.05

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934

TUCSON, ARIZONA

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

Representatives at

IDENTIFICATION		Gold ozs	Silver ozs	Lead %	Copper %	Ox Copper %	Zinc %	Mo %	Sb %
DRILL HOLE GSBH1	INTERVAL								
B-25	246-253	None	Trace		0.32	0.36		0.008	2.520
B-26	253-261	None	0.10		0.44	0.48		0.008	3.840
B-27	261-273	Trace	Trace		0.38	0.41 0.15		0.007	4.920
B-28	273-282	Trace	Trace		0.40	0.44		0.009	3.960
B-29	282-291	None	0.10		0.23			0.004	2.070
B-30	291-300	Trace	Trace		0.32			0.005	None
B-31	300-303	None	Trace		0.12	0.16		0.009	0.480
B-32	303-313	None	Trace		0.21			0.004	2.100
B-33	313-323	None	Trace		0.19			0.003	1.900
B-34	323-333	None	Trace		0.26			0.005	2.600
B-35	333-342	Trace	Trace		0.19			0.004	1.710
B-36	342-349	Trace	Trace		0.21	0.27		0.012	None
B-37	349-356.6	None	Trace		0.27			0.007	2.030
B-38	356.6-367	0.003	Trace		0.31			0.005	3.220
B-39	367-378	Trace	Trace		0.38	0.45		0.014	4.950
B-40	378-389	Trace	Trace		0.41	0.47		0.016	5.390
B-41	389-400	Trace	Trace		0.72	0.83		0.022	7.130
B-42	400-413	Trace	Trace		0.36	0.48		0.024	6.240
B-43	413-424	Trace	Trace		0.56	0.60		0.009	6.000
B-44	424-435	Trace	Trace		0.27	0.31		0.008	3.410

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY

REMARKS:
Necessary to dry samples B-25/B-33, drying & preparation at $1 ea.

Analysis Cert. By P Richard

Preparation $ 17.25
Analysis $ 170.75
$ 188.00

ACC: NEW JERSEY ZINC COMPANY

Date Spl. Received 9-3-63 | Date Compl. 9-9-63 | TUC 319110

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934

TUCSON, ARIZONA

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

Representatives at

4 46

IDENTIFICATION		Gold ozs	Silver ozs	Lead %	Copper %	Ox Copper %	Zinc %	Mo %		
	No INTERVAL									
DRILL HOLE GSB #1	B-45 435-445'	None	Trace		0.26	0.12	1.16 0.45 Cu	0.003	.032.600	
	46 445-455'				0.37 0.44	0.13		0.014	.144.400	3.7
	47 455-463'	Trace	0.10		0.31 0.44	0.04		0.026	.083.520	2.43 28 0.39 Cu
	48 463-466'	None	Trace		0.12 0.27			0.034	.102.870	0.36
	49 466-473'	None	Trace		0.24 0.22	0.07		0.011	.072.030	1.68
	50 473-481'				0.18	0.03		0.003		
	51 481-490'	None	Trace		0.15	0.08		0.003		
	52 490-500'				0.21	0.17		0.004		
	53 500-511'	None	Trace		0.08	0.07		None		
	54 511-522'				0.13	0.03		0.002		
	55 522-532'	0.002	Trace		0.05			0.004		
	56 532-541'				0.03			0.002		
	57 541-550'				0.06			0.001		
	58 550-560'				0.06			0.003		
	59 560-569'	Trace	0.10		0.03			0.002		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
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CITY

REMARKS:

Special

Analysis Cert. By P. Richard

Preparation $ 11.25
Analysis $ 107.25

ACC: NEW JERSEY ZINC COMPANY

Date Spl. Received 9/10/63

Date Compl. 9/12/63

319172

$ 118.50

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

Representatives at

IDENTIFICATION	Gold ozs	Silver ozs	Lead %	Copper %	Ox Copper %	Zinc %	Mo %		
DDH. GSB #1 No INTERVAL									
B-60 569-579				0.15			0.001		
B-61 579-591	Trace	Trace		0.12			0.004		
B-62 591-593				0.10			0.009		
B-63 593-596.6				0.09			0.003		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR THE CORRECTNESS THEREOF.

CC:
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CITY

REMARKS:

Analysis Cert. By P Pechuel

Preparation $ 3.00
Analysis $ 21.00

ACC: NEW JERSEY ZINC | Date Spl. Received 9-18-63 | Date Compl. 9-21-63 | TUC 319543 | $ 24.00

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

Representatives at

IDENTIFICATION		Gold ozs	Silver ozs	Lead %	Copper %	Ox Copper %	Zinc %	Mo %		
GSB #1 -	DEPTH									
B-64	596.6-607	Trace	0.04		0.26	0.03		0.003		
B-65	607-617				0.09			0.001		
66	617-627				0.06			None		
67	627-637	Trace	Trace		0.04	0.03		0.002		
68	637-646				0.03			0.002		
69	646-656				0.03			None		
70	656-666				0.03			None		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
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CITY

REMARKS:

SPECIAL

Analysis Cert. By P Buchanan

Preparation $ 5.25
Analysis $ 41.00

ACC: NEW JERSEY ZINC CO. | Date Spl. Received 9-30-63 | Date Compl. 10-7-63 | TUC 319643 | $ 46.25

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 W. GRANT RD. at AZTEC • BOX 5934, ANNEX STATION • MAin 2-4836
TUCSON, ARIZONA 85703

BRANCHES: DOUGLAS, ARIZONA; HAYDEN, ARIZONA; EL PASO, TEXAS; AMARILLO, TEXAS

IDENTIFICATION	GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	INSOL. %	IRON %	Sb %	
DRILL HOLE GSB#1									
B-17 164-173'								None	
B-20 192-202'								None	

CC:
ADD:
CITY:
DD:
CITY:

New Jersey Zinc Company
2400 East Grant Road
Tucson, Arizona

REMARKS:

ANALYSIS CERT. BY P. Lickard

ACC: NEW JERSEY ZINC COMPANY | DATE SPL. RECEIVED 8/29/63 | DATE COMPL 9/5/63 | $ N/C | 319097-A

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF. OR LIABILITY TO THE NEW JERSEY ZINC COMPANY.

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Registered Assayers

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB #2 Interval									
8-19' B-71				0.15			None	1.65	
19-31.5' 72				0.13			None	1.625	
31.5-43.0' 73				0.12			None	1.380	
43.0-53.7' 74				0.13			None	1.390	1.391
53.7-65.0' 75	Trace	Trace		0.11			None	1.240	1.243
65.0-77.0' 76				0.10			None	1.20	
77.0-87.5' 77				0.09			None	0.945	
87.5-98.3' 78				0.11			None	1.118	1.188
98.3'-113.5' 79				0.07			None	1.520	1.064
113.5-125.5' 80	Trace	Trace		0.18			None	2.16	
125.5-137.5' 81				0.21			None	2.52	
137.5-148.0' 82				0.19			None	1.995	
148.0-159.0' 83				0.08			None	0.880	
159.0-169.5' 84				0.15			None	1.575	
169.5-179.5 85	None	Trace		0.15			None	1.50	
179.5-191.0 86				0.08			None	0.875	0.920
191.0-200.0' 87				0.16			None	1.440	
200.0-210.0 88				0.14			None	1.400	
210.0-216.0' 89	Trace	Trace		0.24			None	1.440	
216.0-226.0' 90				0.37			None	3.700	
226.0-236.0' 91				0.34			None	3.400	
236.0-246.0 92				0.27			None	2.700	
246.0-256.0 93				0.30			< 0.001	3.000	
256.0-266.0 94				0.17			None	1.700	
266.0-277.0 95	Trace	Trace		0.17			None	1.870	
277.0-288.0 96				0.27			None	2.970	

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WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

REMARKS:

Page 1

Analysis Cert. By

Preparation $

Analysis $

ACC: NEW JERSEY ZINC

Date Spl. Received 10-28-63

Date Compl. 10-29-63

TUC 319875

$

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB-2 Interval									
288 - 298' B-97				0.17			None	1.700	
298 - 308.5' 98				0.18			< 0.001	1.890	
308.5 - 318.0' 99				0.17			None	1.615	
318.0' - 328.0' 100	Trace	Trace		0.11			None	1.100	
328.0' - 340.0' 101				0.41			0.002	4.92	
340.0' - 350.0' 102				0.30			0.011	3.00	
350.0 - 360.0' 103				0.13			None	1.30	
360.0 - 370.5' 104				0.07			< 0.001	0.735	
370.5 - 380.5' 105	Trace	Trace		0.21			< 0.001	2.100	
380.5 - 391.5' 106				0.29			0.004	3.335	3.190
391.5 - 401.5' 107				0.23			None	2.300	
401.5 - 411.7' 108				0.13			None	1.430	1.326
411.7 - 421.0' 109				0.16			None	1.480	1.488
421.0 - 431.5' 110	Trace	trace		0.14			None	1.470	

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
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REMARKS:

Page 2

Special

Analysis Cert. By P Richard

Preparation $ 30.00
Analysis $ 204.00

ACC: NEW JERSEY ZINC

Date Spl. Received 10-28-63

Date Compl. 10-29-63

TUC 319875

$ 234.00

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION		Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB#2	Interval									
B-111	431.5 - 441.5'				0.13			0.004	1.300	
112	441.5 - 451.0'				0.11			None	1.045	
113	451 - 461'				0.14			0.003	1.400	0.173
114	461 - 471.2'				0.16			0.002	1.632	80.945
115	471.2 - 482'	0.005	Trace		0.09			0.002	0.972	
116	482 - 494'				0.09			0.009	1.080	
117	494 - 502'				0.07			0.029	0.560	
118	502 - 512.5'				0.06			None	0.630	
119	512.5 - 521.5'				0.05			0.001	0.450	
120	521.5 - 534.5'	None	Trace		0.04			None	0.520	
121	534.5 - 544'				0.07			0.004	0.665	
122	544 - 554'				0.06			0.002	0.600	
123	554 - 564'				0.06			0.003	0.600	
124	564 - 574'				0.08			None	0.800	
125	574 - 584'	Trace	Trace		0.13			0.002	1.300	
126	584 - 594'				0.10			0.001	1.000	
127	594 - 604'				0.06			0.001	0.600	
128	604 - 614'				0.09			None	0.900	
129	614 - 624'				0.06			0.007	0.600	
130	624 - 634'	None	Trace		0.06			0.002	0.600	
131	634 - 644'				0.10			None	1.000	
132	644 - 656'				0.07			0.002	0.840	
133	656 - 668'				0.06			None	0.720	
134	668 - 676'				0.16			None	1.480	1.280
135	676 - 686'	Trace	Trace		0.10			None	1.000	
136	686 - 697'				0.07			None	0.770	

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WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

REMARKS:

Special

Analysis Cert. By Pleshard

Preparation $ 26.00
Analysis $ 135.00

ACC: NEW JERSEY ZINC

Date Spl. Received 10-28-63 | Date Compl. 10-30-63 | TUC 320126 | $ 161.00

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934
TUCSON, ARIZONA 85703
Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB #2 Interval.									
B-137 697 - 707.5'				0.06			None	0.630	
B-138 707.5 - 717.5'				0.06			0.003	0.600	
B-139 717.5 - 729.0'	None	Trace		0.10			0.001	1.150	
B-140 729.0 - 740'				0.06			0.002	0.660	
B-141 740 - 751'				0.05			None	0.550	
									212.77

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
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CITY:

REMARKS:

Analysis Cert. By

Special

Preparation $ 3.75
Analysis $ 25.50

ACC: NEW JERSEY ZINC

Date Spl. Received 10/30/63

Date Compl. 10/31/63

TUC 320134

$ 29.25

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Registered Assayers

1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION		Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB# 3	Interval									
B-142	10' - 22'				0.03					
143	22' - 34'				0.02					
144	34' - 46'				0.03					
145	46' - 58'				0.03					
146	58' - 70'	Trace	Trace		0.05			None		
147	70' - 84'				0.05					
148	84' - 96'				0.06					
149	96' - 108'				0.02					
150	108' - 120'				0.05					
151	120' - 131'	Trace	Trace		0.02			None		
152	131' - 142'				0.02			None		
153	142' - 152'				0.03			None		
154	152' - 162'				0.03					
155	162' - 173.5'				0.02			None		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
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CITY:

REMARKS:

Special

Analysis Cert. By P Richard

Preparation $ 10.50
Analysis $ ~~22.00~~ 42.0

ACC: NEW JERSEY ZINC

Date Spl. Received 11-8-63

Date Compl. 11-15-63

TUC 320416

$ ~~42.50~~ 52.50

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB#3 Interval									
B-156 173.5'-185.5'	Trace	Trace		0.05			None		
157 185.5'-196.5'				0.05					
158 196.5'-207.5'				0.06			0.002		
159 207.5'-218'				0.05					
160 218'-227'				0.08			0.002		
161 227'-238.5'	Trace	Trace		0.02					
162 238.5'-250'				0.04			0.002		
163 250'-261'				0.05			0.002		
164 261'-272'				0.10			0.020		
165 272'-283'				0.17			<0.001		
166 283'-295'	Trace	Trace		0.10			None		
167 295'-305'				0.08			0.002		
168 305'-315'				0.10			0.001		
169 315'-325'				0.07			0.001		
170 325'-337'				0.09			None		
171 337'-348'	Trace	Trace		0.14			<0.001		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
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CITY:

REMARKS:

7 samples 45# ea, prep. @ $1.50 Special

Analysis Cert. By P Rickard

Preparation $ 17.25
Analysis $ 90.00

ACC: NEW JERSEY ZINC COMPANY

Date Spl. Received 11/13/63 Date Compl. 11/16/63 320440 $ 107.25

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Registered Assayers

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB #3 Interval									
B-172 348'-360'				0.16			0.001		
173 360'-372'				0.17			None		
174 372'-384'				0.19			0.003		
175 384'-395'				0.14			None		
176 395'-407'	Trace	Trace		0.12			<0.001		
177 407'-418'				0.22			0.005		
178 418'-429'				0.13			0.005		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

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CITY:

REMARKS:

Special

Analysis Cert. By P Rushard

Preparation $ 5.25
Analysis $ 34.50

ACC: NEW JERSEY ZINC COMPANY

Date Spl. Received 11/14/63

Date Compl. 11/16/63

320452

$ 39.75

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934
TUCSON, ARIZONA 85703
Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB #3 Interval									
B-179 429'-439'				0.42			0.002		
B-180 439'-449'				0.25			0.001		
B-181 449'-459'				0.25			0.004		
B-182 459'-469'				0.24			0.005		
B-183 469'-479'				0.29			0.004		
B-184 479'-489'				0.18			0.005		
B-185 489'-498'				0.32			< 0.001		
B-186 498'-507'	Trace	0.10		0.22			None		
B-187 507'-517'				0.13			< 0.001		
B-188 517'-525'				0.10			0.002		
B-189 525'-529'	Trace	3.20		1.64			0.023		
B-190 529'-539'				0.11			0.001		
B-191 539'-549'				0.13			0.002		
B-192 549'-559'				0.05			None		
B-193 559'-571'				0.05			0.001		
B-194 571'-582'	Trace	Trace		0.06			0.005		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF. THE NEW JERSEY ZINC COMPANY

CC:
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CITY:

REMARKS:

Special

Analysis Cert. By P Richard

Preparation $ 12.00
Analysis $ 81.00

ACC: NEW JERSEY ZINC COMPANY

Date Spl. Received 11/20/63 | Date Compl. 11/22/63 | 320503 | $ 93.00

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
Registered Assayers
1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934
TUCSON, ARIZONA 85703

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES
Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB #3 Interval									
B-195 582'-594'				0.03			0.004		
B-196 594'-606'				0.05			0.007		
B-197 606'-618'				0.04			0.001		
B-198 618'-630'				0.05			0.002		
B-199 630'-641.5'	Trace	Trace		0.04			0.001		
B-200 641.5'-646'				0.05			None		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY:

REMARKS:

Special

Analysis Cert. By P Richard

Preparation $ 4.50
Analysis $ 30.00

ACC:	Date Spl. Received	Date Compl.		$
NEW JERSEY ZINC	11/21/63	11/27/63	320530	34.50

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION		Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
	Interval									
GSB #4 B-201	10'-23'				0.06					
202	23'-35'				0.07					
203	35'-45'				0.07					
204	45'-55'				0.08					
205	55'-65'	0.005	Trace		0.11			0.002		
206	65'-75'				0.04					
207	75'-85'				0.07					
208	85'-95'				0.08					
209	95'-105'				0.09					
210	105'-115'	None	Trace		0.07			0.002		
211	115'-125'				0.05					
212	125'-135'				0.04					
213	135'-145'				0.16					
214	145'-155'				0.08					
215	155'-165'	Trace	Trace		0.04			None		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY:

REMARKS:

Special

Analysis Cert. By P Rischard

Preparation $ 9.00
Analysis $ 40.50

ACC: THE NEW JERSEY ZINC COMPANY

Date Spl. Received 12/11/63 | Date Comp. 12/13/63 | TUC 320658 | $ 49.50

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 W. GRANT RD. at AZTEC • BOX 5934, ANNEX STATION • MAIn 2-4836
TUCSON, ARIZONA 85703

BRANCHES
DOUGLAS, ARIZONA
HAYDEN, ARIZONA
EL PASO, TEXAS
AMARILLO, TEXAS

IDENTIFICATION	GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	INSOL. %	IRON %		
GSB#4 Interval									
B 216 165' - 175'				0.05					
B 217 175' - 184'				0.04					

CC: New Jersey Zinc Company
ADD: Pima Plaza Bldg.
CITY: 2030 E. Broadway
DD: Tucson, Arizona 85719
CITY:
ACC: NEW JERSEY ZINC

REMARKS:
necessary to dry samples

ANALYSIS CERT. BY D. O'Brien

1.50 drying
1.50 preparation
3.00 analysis

DATE SPC RECEIVED 12-13-63 | DATE COMPL 12-17-63 | $ 6.00 | TUC 320695

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION		Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB #4	Interval									
B-218	184' - 192'				0.06					
219	192' - 200'				0.03					
220	200' - 210'	Trace	Trace		0.19			< 0.001		
221	210' - 220'				0.09			None		
222	220' - 230'				0.20			< 0.001		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY:

REMARKS:

Analysis Cert. By P Richard

Preparation $ 3.75
Analysis $ 19.50

ACC: NEW JERSEY ZINC COMPANY

Date Spl. Received 12/18/63

Date Compl. 12/20/63

TUC 320718

$ 23.25

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %	[illegible]	[illegible]
GSB #4 Interval									
B-223 230' - 240'				0.33			0.005	3.30	0.030
B-224 240' - 250'				0.23			0.002	2.30	0.020
B-225 250' - 261	Trace	Trace		0.22			0.004	2.42	0.040
B-226 261' - 271'				0.61			0.005	6.10	0.050
B-227 271' - 282'				0.33			0.009	3.63	0.099
B-228 282' - 292'				0.33			0.003	3.30	0.03
								21.05	0.203

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY:

REMARKS:

Special

Analysis Cert. By P Rudard

Preparation $ 4.50
Analysis $ 30.00

ACC:	Date Spl. Received	Date Compl.		$
THE NEW JERSEY ZINC CO.	12/19/63	12/20/63	TUC 320728	34.50

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION	Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %	[illegible]	[illegible]
GSB #4 Interval									
B-229 292'-302'				0.46			0.019	4.60	0.197
230 302'-312'	0.010	Trace		0.35			0.003	3.50	0.030
231 312'-322'				0.42			0.008	4.20	0.030
232 322'-332'	Trace	Trace		0.49			0.004	4.90	0.040
233 332'-342'				0.35			None	3.50	0.000
234 342'-352'				0.24			0.002	2.40	0.020
235 352'-361'				0.54			None	5.40	0.000
								22.50	0.3[illegible]

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY:

REMARKS:

Special

Analysis Cert. By P Richard

Preparation $ 5.25
Analysis $ 37.50
$ 42.75

ACC: NEW JERSEY ZINC COMPANY

Date Spl. Received 12/23/63

Date Compl. 12/30/63

TUC 320742

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA 85703

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION		Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %	[illegible]	[illegible]
	A-13				0.05			0.002		
GSB#4	B-236 361'-372'				0.38			0.017	4.18	0.189
	B-237 372'-383'	Trace	Trace		0.28			0.011	3.52	0.121
	B-238 383'-393'				0.40			0.010	4.00	0.100
	B-239 393'-403'				0.45			0.002	4.50	0.020
	B-240 403'-413'				0.27			0.005	2.70	0.050
	B-241 413'-423'				0.39			0.028	3.90	0.280
	B-242 423'-433'	0.005	0.10		0.54			0.022	5.40	0.220
	B-243 433'-443'				0.35			0.002	3.50	0.020
	B-244 443'-453'				0.25			0.002	2.50	0.020
	B-245 453'-463'				0.20			0.009	2.00	0.090
	B-246 463'-473'				0.32			0.035	3.20	0.350
	B-247 473'-483'	0.005	Trace		0.24			0.003	2.40	0.030
									41.36	1.472

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY:

REMARKS:

Special

Analysis Cert. By P Richard

Preparation $ 9.75
Analysis $ 67.50

ACC: THE NEW JERSEY ZINC COMPANY

Date Spl. Received 12/31/63

Date Compl. 1/6/63

TUC 320815

$ 77.25

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 W. GRANT RD. at AZTEC • BOX 5934, ANNEX STATION • MAIn 2-4836
TUCSON, ARIZONA 85703

BRANCHES
DOUGLAS, ARIZONA
HAYDEN, ARIZONA
EL PASO, TEXAS
AMARILLO, TEXAS

GSB#4

CORRECTED REPORT

IDENTIFICATION	INTERVAL	GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	INSOL. %	IRON %	Mo %	
B-248	483' – 490'				0.21	1.47			0.017	.119
B-249	490' – 500'				0.26	2.60'			0.014	.140
B-250	500' – 509'				0.37	3.33 7.40			0.025	.022 .281

CC:
ADD:
CITY:
DD:
CITY:

REMARKS:

ANALYSIS CERT. BY Pleshard

Special

ACC: THE NEW JERSEY ZINC COMPANY

DATE SPL. RECEIVED

DATE COMPL. 1/7/64

$ N/C

320836-A

230' – 509'

279'

Cu 0.316

Mo 0.0087

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 W. GRANT RD. at AZTEC • BOX 5934, ANNEX STATION • MAin 2-4836
TUCSON, ARIZONA 85703

BRANCHES: DOUGLAS, ARIZONA; HAYDEN, ARIZONA; EL PASO, TEXAS; AMARILLO, TEXAS

IDENTIFICATION	INTERVAL	GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	INSOL. %	IRON %	Mo %	
GSB # 4										
B-251	509'-520'				0.17	1.87			0.026	0.226
B-252	520'-531'	Trace	Trace		0.23	2.53			0.022	0.242
B-253	531'-542'				0.26	2.86			0.016	0.176
B-254	542'-552'				0.20	2.00			0.017	0.170
						9.26				0.814

CC: The New Jersey Zinc Company
ADD: Pima Plaza Building
CITY: 2030 East Broadway
DD: Tucson, Arizona
CITY:

REMARKS:

ANALYSIS CERT. BY P Richard

Special

3.00 Preparation
25.00 Analyses

ACC: THE NEW JERSEY ZINC COMPANY

DATE SPL. RECEIVED 1/6/64 | DATE COMPL 1/7/64 | $ 28.00 | 320863

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 W. GRANT RD. at AZTEC • BOX 5934, ANNEX STATION • MAin 2-4836
TUCSON, ARIZONA 85703

BRANCHES: DOUGLAS, ARIZONA; HAYDEN, ARIZONA; EL PASO, TEXAS; AMARILLO, TEXAS

IDENTIFICATION	GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	INSOL. %	IRON %	Mo %	
GSB #4 INTERVAL									
B-255 552' - 562'				0.10	1.00			0.007	0.070
B-256 562' - 573'				0.10	1.00			0.003	0.030
B-257 573' - 584'	None	Trace		0.15	1.65			0.034	0.374
B-258 584' - 596'				0.22	2.64			0.004	0.048
					6.39				0.522

CC:
ADD: The New Jersey Zinc Company
CITY: Pima Plaza Building
DD: 2030 East Broadway
CITY: Tucson, Arizona

REMARKS: Special

ANALYSIS CERT. BY Pickard

3.00 Preparation
21.00 Analyses

ACC: NEW JERSEY ZINC COMPANY | DATE SPL. RECEIVED 1/9/64 | DATE COMPL 1/10/64 | $ 24.00 | 320883

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
Registered Assayers
1800 WEST GRANT ROAD · TELEPHONE MAin 2-4836 · POST OFFICE BOX 5934
TUCSON, ARIZONA

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

Representatives at

IDENTIFICATION		INTERVAL	Gold ozs	Silver ozs	Lead %	Copper %	Ox Copper %	Zinc %	Mo %		
GSB#4 B	259	596' - 610'				0.49			0.019		
CORE	260	610' - 613.5'				0.28			0.029		
"	261	613.5' - 616.5'				0.13			0.004		
"	262	616.5' - 620'				0.11			0.002		
"	263	620' - 625'	0.005	trace		0.14			0.011		
"	264	625' - 626.5'				0.04			nil		
"	265	626.5' - 630'				0.23			0.010		
"	266	630' - 633'				0.12			0.022		
"	267	633' - 635'				0.08			0.032		
"	268	635' - 639.5'	0.005	trace		0.02			nil		
"	269	639.5' - 641'				0.21			0.002		
SLUDGE	270	610' - 613.5'				0.11			0.004		
"	271	613.5' - 616.5'				0.13			0.005		
"	272	616.5' - 620'				0.12			0.002		
"	273	620' - 625'	trace	trace		0.12			0.004		
"	274	625' - 626.5'				0.09			0.005		
"	275	626.5' - 630'				0.10			0.001		
"	276	630' - 633'				0.08			0.014		
"	277	633' - 635'				0.13			0.011		
"	278	635' - 639.5'	trace	trace		0.12			0.007		
"	279	639.5' - 641'				0.13			0.001		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY

REMARKS:

Analysis Cert. By D. O'Guin

Single Determination
Necessary to Dry

Preparation $ 15.75
Analysis $ 106.50

ACC: NEW JERSEY ZINC

Date Spl. Received 1-13-64 | Date Compl. 1-15-64 | TUC320912 | $ 122.25

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934
TUCSON, ARIZONA 85703
Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES
Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

IDENTIFICATION			Gold ozs.	Silver ozs.	Lead %	Copper %	Ox. Copper %	Zinc %	Mo %		
GSB#4		INTERVAL									
CORE B	280	642'-645'				0.16			0.005		
"	281	645'-649'				0.18			0.017		
"	282	649'-657'				0.06			0.002		
"	283	657'-661'	0.005	0.10		0.15			0.001		
"	284	661'-665'				0.21			nil		
"	285	665'-667'				0.19			0.066		
SLUDGE	286	641'-642'				0.16			0.007		
"	287	642'-645'				0.19			0.005		
"	288	645'-649'				0.10			0.002		
"	289	649'-657'				0.11			0.005		
"	290	657'-661'	trace	trace		0.08			0.008		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY:

REMARKS:

Analysis Cert. By

Drying and Preparation $ 11.00
Analysis $ 58.25

ACC: NEW JERSEY ZINC CO.

Date Spl. Received 1-16-64 | Date Compl. 1-21-64 | TUC320941 | $ 69.25

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 W. GRANT RD. at AZTEC • BOX 5934, ANNEX STATION • MAin 2-4836
TUCSON, ARIZONA 85703

BRANCHES: DOUGLAS, ARIZONA; HAYDEN, ARIZONA; EL PASO, TEXAS; AMARILLO, TEXAS

IDENTIFICATION		GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	INSOL. %	IRON %	Mo %	
GSB #4	INTERVAL									
SLUDGE	B-291 661'-665'				0.09				0.009	
"	B-292 665'-667'				0.09				0.012	
CORE	B-293 667'-670'				0.21				0.116	
"	B-294 670'-671.5'				0.20				0.017	
SLUDGE	B-295 670'-671.5'				0.18				0.042	

CC:
ADD: New Jersey Zinc Company
CITY: Pima Plaza Building
DD: 2030 East Broadway
CITY: Tucson, Arizona

REMARKS:

ANALYSIS CERT. BY P Richard

Special

5.00 Prep.& Drying
22.50 Analyses

ACC: NEW JERSEY ZINC COMPANY

DATE SPL. RECEIVED 1/20/64 | DATE COMPL 1/24/64 | $ 27.50 | 320965

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934
TUCSON, ARIZONA
Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

Representatives at

IDENTIFICATION		Gold ozs	Silver ozs	Lead %	Copper %	Ox Copper %	Zinc %	Mo %		
GSB#4	INTERVAL									
B 296	671.5' - 682'	trace	0.30		0.23			0.076		
297	682' - 692'				0.24			0.021		
298	692' - 702'				0.38			0.016		
299	702' - 712'				0.34			0.024		
300	712' - 722'				0.24			0.036		
301	722' - 732'	trace	0.20		0.22			0.023		
302	732' - 742'				0.19			0.013		
303	742' - 754'				0.11			0.002		
304	754' - 765'				0.11			0.015		
305	765' - 775'	0.005	0.30		0.36			0.148		
306	775' - 785'				0.23			0.033		
307	785' - 795'				0.19			0.026		
308	795' - 805'				0.21			0.026		
309	805' - 817'				0.17			0.014		
310	817' - 827'	trace	0.22		0.13			0.012		
311	827' - 837'				0.20			0.011		
312	837' - 847'				0.18			0.064		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY

REMARKS:

Analysis Cert. By D. O'Guin

Preparation $ 17.00
Analysis $ 88.50

ACC: NEW JERSEY ZINC | Date Spl. Received 2-5-64 | Date Compl. 2-7-64 | TUC321200 | $ 105.50

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

1800 WEST GRANT ROAD - TELEPHONE MAin 2-4836 - POST OFFICE BOX 5934

TUCSON, ARIZONA

Registered Assayers

THE SOUTHWEST'S LEADING ASSAYERS AND REPRESENTATIVES

Branch Representatives at Buyer's Plants:
Phelps Dodge Corp., Douglas, Arizona; ASARCO, El Paso, Amarillo, Texas and Hayden, Arizona

Representatives at

IDENTIFICATION		Gold ozs	Silver ozs	Lead %	Copper %	Ox Copper %	Zinc %	Mo %		
GSB#4	INTERVAL									
313	847'- 857'				0.18			0.009		
314	857' - 867'				0.07			0.007		
315	867' - 877'	trace	0.24		0.06			0.011		
316	877' - 887'				0.14			0.120		
317	887' - 897'				0.06			0.023		
318	897' - 906'				0.03			0.006		
319	906' - 916'				0.02			0.016		
320	916' - 924'	nil	0.20		0.02			0.002		

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

CC:
ADD:
CITY:
ADD:
CITY

REMARKS:

Analysis Cert. By D. O'Hern

Preparation $ 6.00
Analysis $ 42.00

ACC: NEW JERSEY ZINC CO | Date Spl. Received 2-7-64 | Date Compl. 2-13-64 | TUC321231 | $ 48.00

HAWLEY & HAWLEY
ASSAYERS AND CHEMISTS, INC.
1800 W. GRANT RD. at AZTEC • BOX 5934, ANNEX STATION • MAin 2-4836
TUCSON, ARIZONA 85703

BRANCHES
DOUGLAS, ARIZONA
HAYDEN, ARIZONA
EL PASO, TEXAS
AMARILLO, TEXAS

IDENTIFICATION		GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	INSOL. %	IRON %	Mo%	
GSB# 4	INTERVAL									
B 321	924' - 932.5'				0.03				0.0005	
B 322	932.5' - 941.5'				0.22				0.0005	
B 323	941.5' - 950.5'				0.12				0.004	

CC: New Jersey Zinc
ADD: Pima Plaza Bldg.
CITY: 2030 East Broadway
ADD: Tucson, Arizona
CITY:

REMARKS:

ANALYSIS CERT. BY W. O'Guin

$ 2.25 preparation
4.50 analysis

ACC: NEW JERSEY ZINC | DATE SPL RECEIVED 2-10-64 | DATE COMPL 2-14-64 | $ 6.75 | TUC321250

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

GSB PROPERTY

CORE RECOVERY - DDH - GSB #4

Interval	Recovery
0'0" - 10'0"	0'0"
10'0" - 17'0"	1'3"
17'0" - 20'0"	2'6"
20'0" - 23'0"	2'6"
23'0" - 25'0"	2'0"
25'0" - 27'0"	1'6"
27'0" - 30'0"	2'3"
30'0" - 33'0"	3'0"
33'0" - 35'0"	2'0"
35'0" - 38'0"	2'6"
38'0" - 41'0"	2'9"
41'0" - 44'0"	3'0"
44'0" - 46'0"	2'0"
46'0" - 48'0"	2'0"
48'0" - 51'0"	2'9"
51'0" - 59'8"	8'8"
59'8" - 67'6"	7'10"
67'6" - 71'8"	4'2"
71'8" - 80'0"	8'4"
80'0" - 87'0"	7'0"
87'0" - 91'0"	3'0"
91'0" - 97'0"	6'0"
97'0" - 107'0"	10'0"
107'0" - 116'0"	8'6"
116'0" - 119'0"	2'6"
119'0" - 120'0"	1'0"
120'0" - 126'6"	6'4"
126'6" - 130'0"	3'6"
130'0" - 133'0"	3'0"
133'0" - 137'0"	4'0"
137'0" - 140'0"	3'0"
140'0" - 143'6"	3'6"
143'6" - 147'0"	3'6"
147'0" - 151'0"	4'0"
151'0" - 152'6"	1'6"
152'6" - 154'0"	1'6"
154'0" - 161'0"	7'0"
161'0" - 168'0"	7'0"
168'0" - 172'0"	4'0"
172'0" - 174'0"	2'0"
174'0" - 177'0"	2'9"
177'0" - 180'0"	2'10"
180'0" - 183'6"	3'6"
183'6" - 184'0"	0'6"
184'0" - 189'0"	4'8"
189'0" - 192'0"	3'0"
192'0" - 196'0"	3'6"
196'0" - 198'6"	2'4"
198'6" - 199'6"	1'0"
199'6" - 207'0"	7'3"

Interval	Recovery
207'0" - 212'0"	5'0"
212'0" - 215'0"	2'6"
215'0" - 217'0"	2'0"
217'0" - 220'0"	3'0"
220'0" - 222'0"	1'6"
222'0" - 226'0"	2'3"
226'0" - 228'0"	2'0"
228'0" - 234'6"	6'0"
234'6" - 244'0"	6'2"
244'0" - 246'6"	2'6"
246'6" - 250'6"	4'0"
250'6" - 256'0"	4'3"
256'0" - 260'0"	3'2"
260'0" - 266'0"	5'9"
266'0" - 270'0"	2'9"
270'0" - 272'0"	2'6"
272'0" - 276'0"	3'10"
276'0" - 280'0"	4'0"
280'0" - 284'0"	3'9"
284'0" - 287'0"	3'6"
287'0" - 291'0"	3'0"
291'0" - 294'0"	2'6"
294'0" - 296'0"	2'0"
296'0" - 306'0"	9'4"
306'0" - 315'0"	9'0"
315'0" - 320'0"	4'8"
320'0" - 327'6"	7'6"
327'6" - 337'0"	9'4"
337'0" - 344'0"	6'6"
344'0" - 346'0"	2'0"
346'0" - 348'0"	2'0"
348'0" - 355'6"	7'6"
355'6" - 361'0"	5'0"
361'0" - 371'0"	10'0"
371'0" - 373'0"	1'6"
373'0" - 381'0"	8'0"
381'0" - 384'0"	2'6"
384'0" - 391'0"	7'0"
391'0" - 395'0"	4'0"
395'0" - 402'0"	7'0"
402'0" - 403'0"	1'0"
403'0" - 405'6"	2'6"
405'6" - 407'6"	1'0"
407'6" - 410'0"	2'6"
410'0" - 412'0"	2'0"
412'0" - 414'0"	2'0"
414'0" - 418'6"	4'6"
418'6" - 419'6"	1'0"
419'6" - 422'0"	2'6"
422'0" - 425'0"	3'0"

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.

Interval	Recovery
425'0" - 428'6"	3'6"
428'6" - 433'0"	4'6"
433'0" - 437'0"	4'0"
437'0" - 440'0"	2'9"
440'0" - 444'0"	3'10"
444'0" - 447'6"	3'6"
447'6" - 451'6"	4'0"
451'6" - 455'0"	3'6"
455'0" - 459'0"	4'0"
459'0" - 466'0"	7'0"
466'0" - 469'0"	3'0"
469'0" - 472'0"	3'0"
472'0" - 476'0"	3'9"
476'0" - 479'6"	3'6"
479'6" - 483'0"	3'6"
483'0" - 486'6"	3'6"
486'6" - 490'0"	3'6"
490'0" - 494'0"	3'8"
494'0" - 499'0"	5'0"
499'0" - 505'6"	6'6"
505'6" - 509'0"	3'6"
509'0" - 512'6"	3'6"
512'6" - 517'0"	4'3"
517'0" - 520'0"	2'8"
520'0" - 522'0"	1'11"
522'0" - 524'0"	2'0"
524'0" - 526'6"	2'6"
526'6" - 530'0"	3'6"
530'0" - 533'6"	3'6"
533'6" - 537'6"	4'0"
537'6" - 540'0"	2'6"
540'0" - 543'0"	3'0"
543'0" - 547'0"	3'9"
547'0" - 552'0"	5'0"
552'0" - 557'0"	5'0"
557'0" - 559'0"	2'0"
559'0" - 561'6"	2'6"
561'6" - 564'0"	2'6"
564'0" - 566'0"	2'0"
566'0" - 567'0"	1'0"
567'0" - 569'0"	1'6"
569'0" - 570'0"	1'0"
570'0" - 571'0"	1'0"
571'0" - 572'6"	1'6"
572'6" - 576'0"	3'6"
576'0" - 583'0"	7'0"
583'0" - 586'0"	3'0"
586'0" - 591'6"	5'0"
591'6" - 596'0"	4'6"
596'0" - 598'0"	2'0"
598'0" - 600'4"	2'4"
600'4" - 603'0"	2'6"
603'0" - 608'0"	5'0"
608'0" - 610'0"	2'0"
610'0" - 613'6"	3'5"

Interval	Recovery
613'6" - 616'6"	3'0"
616'6" - 620'0"	3'0"
620'0" - 625'0"	5'0"
625'0" - 626'6"	1'6"
626'6" - 630'0"	3'5"
630'0" - 633'0"	3'0"
633'0" - 635'0"	1'9"
635'0" - 639'6"	1'9"
639'6" - 641'0"	1'0"
641'0" - 642'0"	0'1"
642'0" - 645'0"	1'9"
645'0" - 649'0"	1'6"
649'0" - 657'0"	0'6"
657'0" - 661'0"	1'6"
661'0" - 665'0"	0'9"
665'0" - 667'0"	2'0"
667'0" - 669'0"	2'0"
669'0" - 670'0"	1'0"
670'0" - 671'6"	1'6"
671'6" - 675'0"	3'6"
675'0" - 677'0"	2'0"
677'0" - 677'6"	0'6"
677'6" - 682'0"	4'6"
682'0" - 684'0"	2'0"
684'0" - 685'0"	1'0"
685'0" - 686'0"	1'0"
686'0" - 688'0"	2'0"
688'0" - 690'0"	2'0"
690'0" - 692'4"	2'4"
692'4" - 697'0"	4'10"
697'0" - 698'0"	1'0"
698'0" - 699'6"	1'6"
699'6" - 708'0"	8'4"
708'0" - 710'6"	2'6"
710'6" - 716'6"	6'0"
716'6" - 718'6"	2'0"
718'6" - 725'6"	7'0"
725'6" - 729'0"	3'6"
729'0" - 730'0"	1'0"
730'0" - 733'0"	3'0"
733'0" - 735'6"	2'6"
735'6" - 742'0"	6'6"
742'0" - 748'0"	6'0"
748'0" - 757'0"	9'0"
757'0" - 762'0"	5'0"
762'0" - 766'0"	4'0"
766'0" - 773'0"	7'0"
773'0" - 774'6"	1'6"
774'6" - 781'6"	7'0"
781'6" - 784'6"	3'0"
784'6" - 788'0"	3'6"
788'0" - 793'0"	5'0"
793'0" - 798'0"	5'0"
798'0" - 803'6"	5'6"
803'6" - 805'0"	1'6"

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF

Interval	Recovery
805'0" - 810'6"	5'6"
810'6" - 817'0"	6'6"
817'0" - 820'0"	2'10"
820'0" - 825'0"	5'0"
825'0" - 828'0"	3'0"
828'0" - 837'0"	8'10"
837'0" - 843'0"	6'0"
843'0" - 847'0"	4'0"
847'0" - 854'0"	7'0"
854'0" - 860'0"	6'0"
860'0" - 868'0"	8'0"
868'0" - 876'0"	8'0"
876'0" - 886'0"	10'0"

Interval	Recovery
886'0" - 890'0"	3'8"
890'0" - 893'0"	1'6"
893'0" - 894'0"	0'6"
894'0" - 904'0"	10'0"
904'0" - 909'0"	5'0"
909'0" - 912'0"	3'0"
912'0" - 917'0"	5'0"
917'0" - 925'0"	8'0"
925'0" - 933'6"	8'6"
933'6" - 937'6"	4'0"
937'6" - 943'0"	5'6"
943'0" - 948'0"	5'0"
948'0" - 950'6"	2'6"

Bottom of Hole 950.5'

0 - 184' - NX

184 - 671.5' - BX

671.5 - 950.5' - AX

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THE NEW JERSEY ZINC COMPANY

GSB PROPERTY

CORE RECOVERY - DDH - GSB #3

Interval	Recovery
0'0" - 10'0"	0'0"
10'0" - 19'6"	8'4"
19'6" - 25'0"	5'6"
25'0" - 29'0"	4'0"
29'0" - 35'0"	5'2"
35'0" - 39'0"	4'0"
39'0" - 44'0"	5'0"
44'0" - 48'0"	4'0"
48'0" - 50'0"	2'0"
50'0" - 54'6"	4'0"
54'6" - 63'0"	8'6"
63'0" - 69'6"	6'2"
69'6" - 72'0"	2'6"
72'0" - 74'0"	2'0"
74'0" - 77'0"	3'0"
77'0" - 79'0"	2'0"
79'0" - 80'0"	1'0"
80'0" - 85'0"	5'0"
85'0" - 88'0"	3'0"
88'0" - 93'6"	4'11"
93'6" - 95'0"	1'6"
95'0" - 97'6"	2'3"
97'6" - 101'0"	4'3"
101'0" - 108'0"	6'8"
108'0" - 118'0"	10'0"
118'0" - 124'0"	6'0"
124'0" - 134'0"	10'0"
134'0" - 144'0"	10'0"
144'0" - 154'0"	10'0"
154'0" - 164'0"	10'0"
164'0" - 167'0"	3'0"
167'0" - 172'0"	5'0"
172'0" - 178'0"	6'0"
178'0" - 184'0"	6'0"
184'0" - 187'0"	3'0"
187'0" - 189'0"	2'0"
189'0" - 199'0"	10'0"
199'0" - 204'6"	5'6"
204'6" - 214'0"	9'6"
214'0" - 223'0"	9'0"
223'0" - 233'0"	9'11"
233'0" - 243'0"	10'0"
243'0" - 250'0"	6'8"
250'0" - 260'0"	9'10"
260'0" - 270'0"	9'9"
270'0" - 280'0"	10'0"
280'0" - 290'0"	10'0"
290'0" - 300'0"	10'0"
300'0" - 304'0"	3'7"
304'0" - 312'0"	8'0"
312'0" - 320'0"	8'0"
320'0" - 330'0"	10'0"

Interval	Recovery
330'0" - 340'0"	10'0"
340'0" - 350'0"	10'0"
350'0" - 360'0"	9'9"
360'0" - 366'0"	5'9"
366'0" - 374'0"	8'3"
374'0" - 384'0"	10'0"
384'0" - 394'0"	10'0"
394'0" - 404'0"	10'0"
404'0" - 414'0"	10'0"
414'0" - 424'0"	10'0"
424'0" - 434'0"	10'0"
434'0" - 443'0"	8'7"
443'0" - 453'0"	10'0"
453'0" - 463'0"	10'0"
463'0" - 473'0"	9'10"
473'0" - 483'0"	10'0"
483'0" - 493'0"	10'0"
493'0" - 503'0"	10'0"
503'0" - 513'0"	10'0"
513'0" - 523'0"	9'8"
523'0" - 525'0"	2'0"
525'0" - 534'0"	9'0"
534'0" - 544'0"	10'0"
544'0" - 554'0"	10'0"
554'0" - 564'0"	10'0"
564'0" - 574'0"	10'0"
574'0" - 584'0"	9'10"
584'0" - 594'0"	9'2"
594'0" - 597'4"	2'10"
597'4" - 603'0"	5'8"
603'0" - 605'0"	1'8"
605'0" - 606'0"	0'11"
606'0" - 614'0"	8'0"
614'0" - 618'0"	3'8"
618'0" - 621'0"	2'10"
621'0" - 630'0"	8'10"
630'0" - 636'0"	5'9"
636'0" - 644'0"	8'0"
644'0" - 646'0"	2'0"
646'0" - 648'0"	1'8"
648'0" - 651'0"	3'0"
651'0" - 654'0"	2'3"
654'0" - 657'0"	2'8"
657'0" - 658'0"	1'0"
658'0" - 664'0"	6'0"
664'0" - 674'0"	9'3"
674'0" - 684'0"	10'0"
684'0" - 691'0"	7'0" (0-10' 3½")
691'0" - 698'0"	6'11"
698'0" - 708'0"	10'0" (10-250' NX)
708'0" - 713'0"	4'2"
- Bottom of Hole -	(250-713' BX

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

GSB PROPERTY

CORE RECOVERY - DDH - GSB #2

Interval	Recovery
0'0" - 8'0"	0'0"
8'0" - 11'0"	3'0"
11'0" - 15'0"	3'0"
15'0" - 17'6"	2'3"
17'6" - 19'6"	2'0"
19'6" - 24'0"	3'4"
24'0" - 25'0"	1'0"
25'0" - 27'0"	2'0"
27'0" - 28'0"	1'0"
28'0" - 31'6"	3'4"
31'6" - 33'6"	2'0"
33'6" - 35'0"	1'4"
35'0" - 38'0"	2'8"
38'0" - 42'7"	4'7"
42'7" - 48'0"	5'3"
48'0" - 52'4"	4'0"
52'4" - 54'5"	2'1"
54'5" - 57'6"	2'8"
57'6" - 60'0"	2'4"
60'0" - 64'6"	2'10"
64'6" - 66'6"	2'0"
66'6" - 69'6"	2'6"
69'6" - 74'6"	4'6"
74'6" - 79'0"	4'6"
79'0" - 82'0"	3'0"
82'0" - 87'6"	5'6"
87'6" - 92'0"	4'5"
92'0" - 98'4"	6'4"
98'4" - 108'4"	8'0"
108'4" - 113'6"	4'0"
113'6" - 114'6"	1'3"
114'6" - 116'0"	1'2"
116'0" - 123'6"	6'4"
123'6" - 126'0"	2'6"
126'0" - 127'6"	1'6"
127'6" - 136'0"	8'10"
136'0" - 143'0"	6'8"
143'0" - 147'0"	4'0"
147'0" - 154'6"	7'4"
154'6" - 161'0"	7'3"
161'0" - 162'6"	1'6"
162'6" - 169'6"	7'0"
169'6" - 175'0"	5'5"
175'0" - 177'6"	2'5"
177'6" - 184'6"	7'0"
184'6" - 194'6"	9'6"
194'6" - 204'6"	10'0"
204'6" - 212'6"	8'0"
212'6" - 216'0"	3'6"
216'0" - 219'6"	3'6"
219'6" - 226'0"	6'6"
226'0" - 236'0"	9'6"
236'0" - 246'0"	10'0"
246'0" - 250'0"	4'0"
250'0" - 260'0"	9'9"
260'0" - 270'0"	10'0"

Interval	Recovery
270'0" - 280'0"	10'0"
280'0" - 290'0"	10'0"
290'0" - 300'0"	9'9"
300'0" - 310'0"	9'9"
310'0" - 316'0"	4'8"
316'0" - 324'4"	7'7"
324'4" - 332'4"	7'3"
332'4" - 342'4"	10'0"
342'4" - 350'0"	6'8"
350'0" - 360'0"	10'0"
360'0" - 370'0"	10'0"
370'0" - 378'0"	8'0"
378'0" - 384'4"	6'2"
384'4" - 394'4"	9'8"
394'4" - 404'0"	9'8"
404'0" - 414'0"	10'0"
414'0" - 421'0"	4'6"
421'0" - 430'0"	9'0"
430'0" - 440'0"	9'10"
440'0" - 446'0"	6'0"
446'0" - 456'0"	9'11"
456'0" - 466'0"	10'0"
466'0" - 474'0"	8'0"
474'0" - 484'0"	9'10"
484'0" - 494'0"	9'10"
494'0" - 504'0"	10'0"
504'0" - 514'0"	9'10"
514'0" - 524'0"	9'6"
524'0" - 534'0"	9'8"
534'0" - 544'0"	10'0"
544'0" - 554'0"	10'0"
554'0" - 564'0"	9'11"
564'0" - 574'0"	10'0"
574'0" - 584'0"	10'0"
584'0" - 594'0"	9'7"
594'0" - 604'0"	10'0"
604'0" - 612'0"	8'0"
612'0" - 622'0"	10'0"
622'0" - 629'0"	6'9"
629'0" - 636'0"	6'4"
636'0" - 646'0"	10'0"
646'0" - 656'0"	9'11"
656'0" - 666'0"	10'0"
666'0" - 676'0"	10'0"
676'0" - 686'0"	8'2"
686'0" - 692'0"	6'0"
692'0" - 702'0"	9'10"
702'0" - 707'0"	4'9"
707'0" - 708'6"	1'5"
708'6" - 710'0"	1'4"
710'0" - 712'0"	2'0"
712'0" - 714'6"	2'6"
714'6" - 724'0"	9'4"
724'0" - 734'0"	9'11"
734'0" - 744'0"	10'0"
744'0" - 751'0"	5'4"

0-8' - 3½"

8-250' - NX

250-751' - BX

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

D.D.H. GSB #1 - CORE RECOVERY

Interval	Recovery
0-10	5
10-12	2
12-14.6	2.5
14.6-18.3	3.0
18.3-20.8	2.5
20.8-24.8	4.0
24.8-27.5	3.0
27.5-31.4	2.0
31.4-34.0	2.5
34.0-38.7	4.7
38.7-40.6	1.9
40.6-42.6	2.0
42.6-44.3	1.7
44.3-46.6	2.3
46.6-48.6	2.0
48.6-49.6	1.0
49.6-51.8	1.2
51.8-53.0	1.2
53.0-55.0	2.0
55.0-57.0	2.0
57.0-60.1	2.9
60.1-64.5	4.1
64.5-67.3	2.6
67.3-71.0	3.7
71.0-74.8	3.5
74.8-77.0	2.2
77.0-81.5	4.5
81.5-83.6	2.1
83.6-85.6	2.0
85.6-87.6	2.0
87.6-91.6	4.0
91.6-92.0	0.4
92.0-101.6	9.6
101.6-108.9	7.3
108.9-114.6	5.7
114.6-121.0	6.4
121.0-130.6	9.6
130.6-135.0	4.4
135.0-137.0	2.0
137.0-139.2	2.2
139.2-142.2	3.0
142.2-145.5	3.0
145.5-153.7	8.2
153.7-157.0	3.0
157.0-159.6	2.4
159.6-167.0	8.5
167.0-168.0	1.0
168.0-175.2	7.2
175.2-180.8	4.5
180.8-183.0	2.2
183.0-193.0	10.0
193.0-202.4	9.4

Interval	Recovery
202.4-212.0	9.6
212.0-221.7	9.7
221.7-223.0	1.0
223.0-233.4	10.0
233.4-239.0	5.6
239.0-244.2	5.2
244.2-250.0	5.8
250.0-258.3	8.3
258.3-265.0	6.7
265.0-275.0	10.0
275.0-281.6	6.6
281.6-291.1	9.5
291.1-302.0	10.9
302.0-308.0	6.0
308.0-312.0	4.0
312.0-318.0	6.0
318.0-321.6	3.6
321.6-324.1	2.5
324.1-326.6	2.5
326.6-331.0	3.5
331.0-336.0	5.0
336.0-338.3	2.3
338.3-339.8	2.6
339.8-345.0	5.0
345.0-352.1	7.1
352.1-362.6	10.5
362.6-366.6	4.0
366.6-376.0	9.4
376.0-384.4	8.4
384.4-392.0	7.6
392.0-402.0	10.0
402.0-412.0	10.0
412.0-422.0	10.0
422.0-426.6	4.6
426.6-435.0	8.4
435.0-443.0	8.0
443.0-452.0	9.0
452.0-455.5	3.5
455.5-464.6	9.1
464.6-469.6	5.0
469.6-474.4	4.8
474.4-479.0	4.6
479.0-481.1	2.1
481.1-485.0	3.9
485.0-490.0	5.0
490.0-492.0	2.0
492.0-498.0	6.0
498.0-500.0	1.0
500.0-501.0	1.0
501.0-502.0	1.0
502.0-505.0	3.0
505.0-515.0	10.0

Interval	Recovery
515.0-522.0	7.0
522.0-526.6	4.6
526.6-536.6	10.0
536.6-546.6	10.0
546.6-556.6	10.0
556.6-556.8	0.2
556.8-566.8	10.0
566.8-569.0	2.2
569.0-579.0	10.0
579.0-582.0	3.0
582.0-584.0	2.0
584.0-588.5	4.5
588.5-592.0	3.0
592.0-596.0	4.0
596.0-602.6	6.6
602.6-607.6	5.0
607.6-614.0	6.4
614.0-622.0	8.0
622.0-624.0	2.0
624.0-633.0	8.0
633.0-636.6	2.5
636.6-640.0	5.0
640.0-646.0	6.0
646.0-649.0	3.0
649.0-653.0	4.0
653.0-657.5	3.5
657.5-661.0	3.5
661.0-663.0	2.0
663.0-666.0	3.0
666.0-668.6	2.5
668.6-671.6	3.0
671.6-681.6	10.0
681.6-684.0	2.0

(669.5)

(0-10 - 3½")

(10-684 - NX)

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THE NEW JERSEY ZINC COMPANY

35122-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE Collared: 7/26/63
Completed: 9/25/63

On GSB #1 claim approximately 150' N 27°W from SE corner GSB #1

HOLE NO. GSB #1

COORDINATES Unsurveyed section 20, T19S, R19E. ELEVATION 6200' (Approx.) BEARING N 60° W INCLINATION -30°

Contractor Joy Manufacturing Company LOCATION GSB Property, Whetstone Mining District, Cochise County, Arizona. Shed No.

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
2-10 3½" ↓	5'	Gray	Coarse	Gran.	Qtz. Monz.					A few thin hairline seams at least 6" apart with thin gossanous films - some black amorphous limonite. Rock is hard, minerals are fresh. Biotite is the principal mafic mineral. Fractures at 45° to core.	Interval 10-66' entire core assayed. Assay results are attached to this log.			
10-20 ↓	10'	"	"	"	"					Same as above interval; broken, soft and weathered toward end.				
20-21.5	1.5'	Brown	"	"	"					Coarse to medium porphyry - no significant amount of mafic minerals--brown limonitic stain - some shearing at 30° to core axis.				
21.5-38.7) (15.0')		Brn.-Gray	"	"	"					Alternating hard and soft bands - only very minor fracturing, with thin gossanous films. Biotite is the principal mafic mineral. Magnetite is an accessory mineral.				
38.7-110.0) (70.0')		Gray	"	"	"					Massive with sparse basic inclusions. Biotite remains the principal mafic mineral with minor amphibole. A few thin hairline seams with thin gossanous films - some black amorphous limonite. Cu stain noted along fractures is more abundant in the interval 71-91'. Principal fracturing is at 45-60° to core axis. Fracturing and mineralization is more intense below 71'. Sulphides start appearing at 91'. Consist of eyes of chalcopyrite in pitch along fractures. Some pyrite. Sparse ankerite along certain fractures.	(Fine specks of fluorescence at 85' - no economic significance. Fluorescence bright orange yellow to white.)			

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THE NEW JERSEY ZINC COMPANY

Logged by:

X5421-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #1

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
110-135	25'	Gray Green	Coarse Gran.		Qtz. Monz.		Abundant calcite and ankerite in veins cutting core at 30° to core axis. One calcite vein is 6" wide. Fracturing more intense. Sulphides continue with chalcopyrite along fractures, some as close as 1' apart. Below 116' oxidation is again present and pitch occurs along fractures. Whole interval is marked by zones of moderate alteration interbanded with fresh quartz monzonite. Mafic minerals and feldspar are altered to serpentine and/or chlorite (?) (with definite chlorite in lower part). Gouge occurs in the 129-135' interval. Disseminated chalcopyrite in addition to veinlets occur in the serpentinized zones. Zone would likely assay at less than 0.5% Cu.	in interval 110-113' -			
135-142	7.0'	Gray	Med. Gran.		Qtz. Monz.		Fresh with fracturing at 45° to core axis. Fractures about 1" apart. Partly oxidized with chalcopyrite and pyrite (1 to 1) along -1mm. wide veinlets. Beginning to look like oxidation goes deeper in areas of higher pyrite content. Some Cu stain and limonite pitch. Minor chalcopyrite disseminated in quartz monzonite, usually with the biotite. Visible magnetite.				
142-164	21'	Gray Green	"	"	"		Serpentine - chlorite alteration begins again - looks like chlorite develops from mafic minerals and serpentine from the feldspar. Fracturing equivalent to the previous interval with about complete oxidation. Cu stain and pitch occur along -1mm. fractures. Some remnant chalcopyrite. A few basic inclusions.	(A few fine specks of fluorescence at 142', same as that at 85')			

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THE NEW JERSEY ZINC COMPANY

Logged by: _____

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #1

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
164-173	9'	Gray Green	Med.	Gran.	Qtz. Monz.		Local, more intense serpentinization. Introduction of quartz along veinlets with the sulphides. Closely spaced veinlets with chalcopyrite and tetrahedrite. Only minor pyrite. Fracturing is at 50° to the core axis. Only sparse biotite left. Some disseminated chalcopyrite.				
173-182	9'	Dark Gray	Coarse	Gran.	Qtz. Monz.		Greater amount of chlorite - lesser amount of chalcopyrite than previous section. Increasing amount of tetrahedrite near end of interval. Feldspars are serpentinized.				
182-202	20'	Gray	"	"	"		Light gray - serpentine is still present - fracturing persists, some as close as 1" apart - also minor disseminated chalcopyrite. Greater amount of pyrite in this section with higher per cent of tetrahedrite. Mineralization is fine. Calcite veinlets cut core at 40° to axis - are post mineral as they cut sulphide veinlets and are at right angles. Veinlets remain about -1mm. wide, although some are wider.				
202-223	21'	"	"	"	"		Greater percent of calcite vein material in serpentinized quartz monzonite - partly vuggy - some brecciation. Fracturing and sulphide mineralization persist, but is lower grade principally because of the amount of calcite.				
223-236	13'	"	"	"	"		Similar to unit 182-202, but with less fracturing and less tetrahedrite. Chalcopyrite and pyrite are principal sulphides. Some calcite stringers - some are parallel to sulphide filled Fractures. Minor ankerite at 231'. Core is patchy with remnants of fresh monzonite with biotite in serpentinized material.				
236-246	10'	Brown	"	"	"		Abundant ankerite - no visible mineralization. Ankerite is along fractures at 45° to core axis and also at right angles to this direction.				

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THE NEW JERSEY ZINC COMPANY

Logged by:

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #1

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
246-261	15'	Gray-Green	Coarse Gran.		Qtz. Monz.					Serpentinized with fracturing - fractures contain tetrahedrite - pyrite and chalcopyrite. Not as much Cu as interval 182-202. Calcite veinlets persist - much fewer below 250'. Greater proportion of chalcopyrite below 250'. Fractures are at 50° to core axis. Toward bottom there are remnants of fresh biotite.	(Core checked to 250' with short and long wave ultra-violet light.)			
261-273	12'	Brown	"	"	"					Partly oxidized with some pitch and remnant chalcopyrite. Only very minor serpentine. Interval 264-273 contains abundant ankerite veinlets in addition to the sulphide veins. Fractures average about 1" apart, similar to the interval 246-261. Some of the ankerite is along fractures - is at right angles to the sulphide veinlets.				
273-300	27'	Gray-Green	"	"	"					Serpentinized - with some remnant biotite from 283-287'. Fracturing probably averages 2" apart with -1 mm. widths. Quartz occurs along fractures with the chalcopyrite - tetrahedrite and pyrite. At 274' there is a quartz vein (3") (grey) - it is at right angles to the sulphide veins. Local ankerite at 281 and 289'.				
300-303	3'	Gray	Siliceous Breccia							Some ankerite - no significant amount of sulphides. Principally siliceous fragments but contains some intrusive pieces.				

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THE NEW JERSEY ZINC COMPANY

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #1

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
303-342	38.8	Gray	Coarse	Gran.	Qtz. Monz.		Fresh quartz monzonite - with thin hairline seams of chalcopyrite and pyrite with quartz. Parallel fractures about 6" apart - biotite is fresh. Some fractures have a light dusting of grey chalcocite. Minor molybdenite in fine flakes at 334'. Fractures are at 45° to core. There is some minor disseminated chalcopyrite near fractures.				
342.- 356.6	14.6	"	"	"	"		Alternating bands of serpentinized and fresh monzonite, bands are about 1 foot wide and contacts conform to calcite filled fracture direction. Fractures contain tetrahedrite, chalcopyrite and pyrite in serpentinized zones and chalcopyrite and pyrite in fresh fractured material. Biotite is the principal mafic mineral with subordinate hornblende. Some calcite veinlets occur normal to the sulphide veinlets which are at 45° to the core axis. Serpentinized zones have calcite along grain boundaries.				
356.6 - 400	53.0	"	"	"	"		Fairly uniform interval - generally fresh quartz monzonite with fractures spaced on the average about 1" apart. These are less than 1mm. wide and contain chalcopyrite, pyrite, some molybdenite and tetrahedrite. Quartz occurs with the sulphides. Some sooty chalcocite occurs on chalcopyrite and pyrite. Much of the bornite is a stain on the chalcopyrite. There is a subsidiary fracture direction that becomes more obvious below 380'. It is at 60° or 30° to the major direction containing the sulphides. These two subsidiary fractures are commonly filled with quartz. Occasionally, some biotite is present and it is the first occurrence of secondary biotite noted. No significant amounts of sulphides occur along the subsidiary fractures. Major direction continues at 45° to the core axis.				

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THE NEW JERSEY ZINC COMPANY

X5421-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #1

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
400-413	13'	Gray	Coarse	Gran.	Qtz. Monz.		Alternating bands and patches of serpentinized material and relatively fresh monzonite (Minor chloritization of the mafic minerals). Some introduction of ankerite toward the end. Again, tetrahedrite, chalcopyrite are the principal Cu minerals in the serpentinized zones and chalcopyrite the principal ore mineral in the fresh zone. Occasional speck of molybdenite noted in the fresh zones with chalcopyrite. Fracturing is more intense with fractures less than 1" apart. Magnetite is visible.				
413-435	22'	Gray	Coarse	Gran.	Qtz. Monz.		Fresh quartz monzonite - biotite remains the principal mafic mineral with lesser amounts of hornblende. Intensity of fracturing persists, but there are a few 6" zones without fracturing. Fractures are at 50° to core axis. Chalcopyrite is the principal ore mineral with occasional molybdenite. Veinlets are less than 1mm. thick. Sulphides are partly oxidized.				
435-463	28'	"	"	"	"		Fresh quartz monzonite - biotite remains the principal mafic mineral. Intensity of fracturing persists with fractures about 1" apart. Direction is 45° to the core axis. Some subsidiary fracturing, but this is mainly filled with quartz. Chalcopyrite, pyrite and increasing amounts of molybdenite occur along -1mm. wide veinlets. Quartz is also present. Partly oxidized.				
463-466	3'	Gray-Green	"	"	"		Serpentinized-fracturing persists with tetrahedrite, chalcopyrite and some molybdenite along fractures. Molybdenite is in veinlets with greater percent of quartz.				

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THE NEW JERSEY ZINC COMPANY

X5M21-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #1

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
66-481	15'	Gray	Coarse		Qtz.					Fresh quartz monzonite - somewhat more siliceous than				
			Gran.		Monz.					normal. Fracturing persists with chalcopyrite, pyrite and				
										molybdenite along fractures. Some oxidation is still				
										present. Subsidiary fracture direction is present with				
										quartz filling. Change to next unit takes place along				
										slip at 90° to principal fracture - could be horizontal.				
81-490	9'	"	"	"	"					Unaltered quartz monzonite - fracturing persists but is				
										less intense. Chalcopyrite and pyrite occur along fractures,				
										(-1mm.). Only minor molybdenite. Some disseminated				
										chalcopyrite . Broken zone at 484-485'. Contains visible				
										magnetite. Partly oxidized.				
490-500	10'	"	"	"	"					Similar to the above interval with perhaps less fracturing.				
										Nearly complete oxidation. Broken zone from 491-492' -				
										Monzonite in this interval is soft and weathered. Contains				
										visible magnetite.				
00-522	22'	"	"	"	"					Relatively massive - only sparse fracturing - with some thin				
										films of pyrite - chalcopyrite along fractures. Also some				
										disseminated pyrite - chalcopyrite. Biotite and hornblende				
										continue as principal mafic mineral. Possibly higher				
										proportion of orthoclase. Some fractures filled with quartz.				
										Partial oxidation.				
22-560	38'	"	"	"	"					Similar to the above interval but with increase in fracturing.				
										Pyrite-chalcopyrite along fractures with greater percent of				
										pyrite - also some disseminated chalcopyrite-pyrite. Minor				
										molybdenite. Fairly abundant biotite along fractures -				
										also quartz. Major fracture direction continues to cut core				
										axis at 45°, but is less prominent. Minor ankerite in veinlets				

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THE NEW JERSEY ZINC COMPANY

Forward ...

X5421-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #1

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
560-569	9'	Gray	Coarse	Gran.	Qtz. Monz.					Similar to the interval 500-522. Sparse fractures contain principally quartz. More orthoclase-?				
569-591	22'	"	"	"	"					Similar to the above interval with possibly slight increase in chalcopyrite - there is less pyrite. Some local alkerite along fractures. Fracturing persists but principal direction at 45° to core is not very distinct. Other directions present and are filled with quartz and some biotite. Minor molybdenite noted at 586'. No alteration.				
591-594	3'	Green	"	"	"					Serpentinized zone - mineralization along fractures and in blebs - sulphides are tetrahedrite, chalcopyrite, pyrite and some molybdenite. Strong shearing normal to fracture direction at 592'.				
594-596.6 (2.6')		Gray	"	"	"					Unaltered - minor fracture with sparse chalcopyrite and pyrite along widely spaced fractures.				
596.6-646 (50')		"	"	"	"					Fresh - some increase in fracturing - predominant direction is at 45° to the core axis. There is a greater percent of quartz in the fracture fillings. Chalcopyrite, pyrite and molybdenite are the sulphide minerals. Often they occur as discreet blebs and veinlets along one margin of the quartz filled fractures. Some biotite is also introduced. Magnetite is an accessory rock mineral. A few basic inclusions toward 646'.				
646-684	36'	"	"	"	"					Somewhat pinker cast - fracturing has decreased. As elsewhere biotite is the principal mafic mineral. It is quite fresh. A few scattered fractures contain chalcopyrite and pyrite.				
684										- END OF HOLE -				

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Logged by:

THE NEW JERSEY ZINC COMPANY

DIAMOND DRILL LOG

On GSB #10 Claim Approximately 900' S 52°W from DDH GSB #1

DATE Collared: 9/30/63 Completed: 10/23/63

HOLE NO. GSB #2

COORDINATES Unsurveyed Section 20, T 19 S, R 19 E

ELEVATION 6335 (Approx.) BEARING N 32° W

INCLINATION -30°

Contractor Joy Mfg. Co.

LOCATION GSB Claims, Whetstone Mtns., Cochise County, Arizona

Shed No.

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
0-8'	0				Qtz. Monz.		(No Recovery)				
8'-19'6'	11'6"	Grey	Cse.	Gran.	"		Fresh quartz monzonite, light grey, massive, with local pink. cast, fractures about 6" apart, mostly 45 degrees to core axis; thin, gossanous film on fracture surfaces with minor secondary Cu mineralization on some fracture surfaces; a few low angle fractures filled with 1/8" or less quartz veinlets - fracture angles about 15 degrees, 30 degrees, and 45 degrees to core axis.				
19'6"-26'	6'6"	"	"	"	"		Quartz monzonite, light grey, coarse, massive, with pink. cast, principal mafic mineral - biotite; occasional fractures mostly 45 degrees to core axis; thin, gossanous film on fracture surfaces with minor secondary Cu mineralization at 25.2'; also limonite.				
26'-28'6"	2'6"	"	"	"	"		Serpentinized quartz monzonite, light grey, fractures about 2" apart with abundant limonite on fracture surfaces; some limonite pitch; increase in secondary Cu mineralization; fractures mostly 45 degrees to core axis; occasional fractures at 60 degrees to core axis and few at 20 degrees to 30 degrees to core axis.				
28'6"-31'6"	3'0"	"	"	"	"		Fresh quartz monzonite, light grey, massive, with pink. cast; fractures about 6" apart, mostly 45 degrees to core axis, with minor limonite and secondary Cu coating on fracture surfaces; abundant secondary Cu mineralization on fracture surfaces at 30'; occasional fractures 15 to 30 degrees to core axis.				
31'6"-43'	11'6"	"	"	"	"		Same as 28'6" to 31'6", except for local weathered and broken zones along 45 degree fractures at 33.5', 38', and 39'; fractures 6" apart; principal mafic mineral - biotite. Occasional fractures at 60 degrees to core axis.				

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THE NEW JERSEY ZINC COMPANY

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
43'- 53'9"	10'9" &	Brn. Lt. Gn.	Coarse	Clay-ey	Qtz. Monz.		Intensely serpentinized quartz monzonite, yel.-gn. with abundant fractures 3" to 4" apart, mostly 45 degrees to core axis, with abundant Fe coating giving brn. cast to core. Absence of biotite; secondary fractures at 60 to 70 degrees to core axis, few at 15 degrees to core axis.				
53'9"- 65'	11'3"	Grey	"	Gran.	"		Fresh quartz monzonite, light grey, coarse, massive, with 6" spaced fractures at 45 degrees to core axis, occasional 15 degree fractures, thin limonite and limonite pitch coating on fracture surfaces; abundant fresh biotite.				
65'-98'4"	33'4"	"	"	"	"		Same as 53'9" to 65' - with decreasing amount of fractures 6" to 12" apart. Local crushed zones 66'-67', and 98'-98'4"; low-angle fractures parallel to core axis 78'-79'; very minor secondary Cu mineralization - few fractures.				
98'4"- 125'6"	27'2"	"	"	"	"		Fresh quartz monzonite, light grey, massive to highly frac.; principal fractures 45 degrees to core axis; few secondary fractures at 60 degrees to core axis; occasional fractures 15 degrees to core axis. Fractures about 6" apart 98'4" to 114'6"; fractures about 2" to 3" apart from 114'6" to 117'6", mostly 45 degrees to core axis, hairline fractures filled with limonite pitch and some unoxidized sulphides. Fractures about 4" to 6" apart 117'6" to 125'6".				
125'6"- 137'6"	12'0"	"	"	"	"		Fresh quartz monzonite, light grey, massive, with decrease in number of fractures. Fractures about 6" to 12" apart; main fractures 45 degrees to core axis and vary from hairline to 1/16" in width, filled with limonite pitch and minor amount unoxidized sulphides; some secondary Cu coating on fracture surfaces; few fractures 60 degrees to core axis; occasional fractures about 15 degrees to core axis.				

Logged by:

X5421-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
137'6"-					Qtz.					Fresh quartz monzonite, light grey, with abundant fractures				
141'	3'4"	Grey	Cse.	Gran.	Monz.					about 2" to 3" apart with hairline fillings of limonite				
										pitch and secondary Cu mineralization; main fractures				
										about 45 degrees to core axis; few fractures at 60				
										degrees to 75 degrees to core axis.				
141'-														
169'6"	28'6"	"	"	"	"					Fresh quartz monzonite, light grey, with decrease in frac.;				
										main fractures at 45 degrees to core axis are 1" or				
										more apart; loc., closer spaced fractures 165' to 166'				
										with limonite pitch and secondary Cu mineralization filling				
										fractures and small amount unoxidized sulphides. Low				
										angle fractures about 15 degrees to core axis from 163'-164'.				
169'6"-														
197'	27'6"	"	"	"	"					Fresh quartz monzonite, light grey, coarse to medium, frac.				
										to massive, with fractures spaced 5" to 1 foot or more				
										apart and mostly inclined at 60 degrees to core axis.				
										Loc., closer spaced fractures through short intervals. Most				
										fractures coated with limonite, some with secondary Cu				
										mineralization. Increase over previous interval in amount				
										of sulphides (py & cpy) in hairline seams of limonite				
										pitch. Occasional fractures 40 degrees to 50 degrees to				
										core axis; few fractures 0 to 30 degrees to core axis.				
										Abundant fresh biotite principal mafic mineral. Some				
										disseminated sulphides.				
197'- 200'	3'0"	"	"	"	"					Fresh quartz monzonite, light grey; increase in fractures,				
										less than 2" apart, mostly 45 degrees to core axis, filled				
										mostly with hairline seams of limonite and limonite pitch				
										and minor secondary Cu; minor sulphides.				

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THE NEW JERSEY ZINC COMPANY

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
200'-210'	10'	Grey	Cse.	Gran.	Qtz. Monz.					Fresh quartz monzonite, light grey, decrease in fractures, most fractures 50 to 60 degrees to core axis, from 6" to 3" apart, mostly coated with oxides - only minor sulphides. Few small basic inclusions.				
210'-216'	6'	"	"	"	"					Abundant frac. 1" apart - quartz monzonite - local, broken; most fractures at 45 degrees to core axis with increase in iron stain and secondary Cu mineralization; occasional hairline seams of limonite pitch with minor sulphides. Few secondary fractures at 15 to 30 degrees to core axis. Local serpentinization at 211'.				
216' - 250'	34'	"	"	"	"					Fresh quartz monzonite, light grey, with frequent fractures varying from 6" to less than 1" apart, averaging about 2" to 3". Main fractures inclined at 50 to 60 degrees to core axis, some at 40 to 50 degrees, generally coated with limonite and secondary Cu. Frequent seams of limonite pitch with some sulphides, seams mostly hairline with a few 1/16' to 1/8" wide. Occasional secondary fractures at 15 degrees to 30 degrees to core axis.				
		BX from 250'												
250'-266'	16'	"	"	"	"					Light grey, abundant frac., with fractures spaced from less than 1" apart to about 3", mostly at 45 degrees to core axis; most fractures filled with very thin seams iron oxides; minor secondary Cu coating and minor sulphides. Occasional secondary fractures at 60 degrees to core axis; only few at 15 to 30 degrees. Local serpentinized zone 264' to 266'. (Moderate).				
266'-288'	22'	"	"	"	"					Light grey, with loc. pink. cast; fractures about 6" apart, mostly at 60 degrees to core axis, hairline seams of limonite pitch with increase in sulphides over previous interval and decrease in amount of iron stain; minor molybdenite and secondary Cu coating. Occasional fractures at 45 degrees to core axis; few parallel to core axis to 15 degrees inclination. Local basic inclusions.				

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THE NEW JERSEY ZINC COMPANY

DIAMOND DRILL LOG

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THE NEW JERSEY ZINC COMPANY

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
288'-290'	2'	Grn. Grey	Cse.	Clay-ey	Otz. Monz.					Intensely serpentinized, brn. to grn.-grey, fractures about 1" to 3" apart, mostly at 50 to 70 degrees to core axis, generally coated with abundant iron stain (oxides). Fresh biotite sparse.				
290'-340'	50'	Grey	"	Gran.	"					Light grey, moderately fractured with fractures about 3" to 6" apart with 50-50 distribution of inclination between 45 and 60 degrees to 70 degrees to core axis; fractures filled with limonite pitch and sulphides (pyrite and chalcopyrite); very thin seams. Minor molybdenite and secondary Cu mineralization. Few low angle fractures at 15 degrees to core axis with some quartz filling 1/16" to 1/8". Local serpentinized zone 331' to 331.3'. Local ½" iron oxide seam with some sulphides at 338.8'.				
340'-342'	2.0'	Grn. Grey	"	Clay-ey	"					Intensely serpentinized monzonite with fractures about 2" apart mostly at 60 - 70 degrees to core axis. Local abundant iron stain with some sulphides. Local 2' quartz seam at 340.3' to 340.5' with abundant iron oxides and moderate sulphides.				
342'-360'	18'	Grey	"	Gran.	"					Fresh quartz monzonite, light grey, with fractures spaced 4" to 6" apart, mostly at 60 - 70 degrees to core axis, most fractures coated with limonite and limonite pitch, some sulphides and secondary Cu mineralization, minor molybdenite and disseminated sulphides. Occasional secondary fractures at 45 degrees to core axis and few fractures parallel to core axis to 20 - 30 degrees inclination. Abundant fresh biotite; some chloritization.				
360'-391'6"	31.5'	"	"	"	"					Fresh quartz monzonite, light grey, fractures about 6" apart, evenly distributed among 3 inclinations to core axis - 60 degrees, 45 degrees, and 20 degrees. Many fractures filled with thin seams of calcite and iron carbonate (ankerite-?).				

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
360'-391'6"	31.5'	Grey	Cse.	Gran.	Qtz. Monz.		(continued)-Hairline to 1/16" seams of limonite pitch with increase in amount of sulphides over previous intervals. Some secondary Cu mineralization; minor molybdenite and disseminated sulphides (pyrite and chalcopyrite). Local serpentinized zone from 369.3' to 370', with sulphide bearing quartz seams. Possible tetrahedrite-?				
391'6"-394'	2.5'	~~Grn.-Grey~~	"	Clay-ey	"		Intensely serpentinized quartz monzonite with fractures about 3" apart, mostly 60 degrees to core axis; local abundant iron stain. Most fractures filled with limonite (oxides) and minor sulphides; local 6" sulphide bearing quartz seam from 393.0' to 393.5'.				
394'-409'3"	15.3'	Grey	"	Gran.	"		Similar to 360' to 391'6".				
409'3"-411'9"	2.5'	Grn.-Grey	"	Clay-ey	"		Similar to 391'6" to 394'.				
411'9"-466'		Grey	Cse.	Gran.	"		Fresh quartz monzonite, light grey, fractured to massive, with fractures about 6" apart to 1' or more; fractures mostly 45 degrees to 60 degrees to core axis; hairline seams of limonite pitch with minor sulphides; occasional carbonate seam and secondary Cu mineralization. Local serpentinized zone from 420' to 421'. Few secondary fractures at 20 to 30 degrees to core axis up to 422'. Increase in sulphides including molybdenite from 446' to 464'; local serpentinization at 463.5' associated with 1/8" quartz veinlet. Fine grained, moderately serpentinized from 465' to 466'.				
466'-468'	2.0'	"	Fine	"	"		Monzonite, light grey, medium-fine, moderately serpentinized with fractures about 2" apart mostly 60 degrees to core axis. Fractures filled with hairline seams of chalcopyrite and minor molybdenite. Frequent calcite seams 1/16" to 1/8"; minor ankerite. Local basic inclusions.				

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS
468'-471'3"	3.3'	Grn.-Grey	Cse.	Clay-ey	Qtz. Monz.					Serpentinized monzonite; absence of fresh biotite with abundant fractures 1" to 3" apart mostly at 60 degrees to core axis; occasional 45 degrees, few 20 - 30 degrees. Fractures filled with hairline seams of chalcopyrite and molybdenite, some tetrahedrite possible. Few seams 1/16". Numerous calcite seams 1/16" to 1/4" at 20 degrees to core axis.
471'3"-475'6"	4.3'	Grey	Med.-Fine	Gran.	Qtz. Monz.					Monzonite, light grey, medium to fine, moderately serpentinized with fractures averaging 3" apart and mostly 60 degrees to core axis; occasional 45 degrees. Fractures filled with hairline seams chalcopyrite and molybdenite with increase in molybdenite over previous interval. Numerous calcite seams at 10 - 30 degrees to axis; local ankerite. Minor disseminated sulphides (pyrite and chalcopyrite).
475'6"-512'6"	37'	Grey	Med.-Cse.							Fresh monzonite, light grey, medium to coarse with fractures about 3" to 6" apart, mostly at 60 degrees to core axis, occasionally 45 degrees, few at 20 - 30 degrees. Fractures filled with hairline seams of chalcopyrite and molybdenite. Occasional thin calcite seams and associated ankerite also occasional quartz veinlet associated with sulphide seams. Local moderately serpentinized zone 484' - 485'. Minor disseminated pyrite and chalcopyrite. Local abundant molybdenite at 491; and 497.3'. Also local minor bornite.
512'6"-521'6"	9'	Grn.-Grey	Med.-Fine	Clay-ey	"					Serpentinized monzonite, with fractures about 6" apart mostly 30 degrees to 45 degrees to core axis and mostly filled with 1/4" seams calcite or quartz; local ankerite. Occasional fractures 60 degrees to axis filled with hairline to 1/16" seams of chalcopyrite and possible tetrahedrite and minor molybdenite.

SPLIT CORE ANALYSES			
FOOTAGE	Zn	Pb	AVERAGE

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DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
521'6"-534'6"	13'	Grey	Med.	Gran./Qtz. Monz.						Fresh monzonite, light grey, with fractures about 4" to 6" apart and evenly distributed between 60 degrees and 45 degrees to core axis; mostly filled with thin seams of calcite and ankerite, only minor pyrite, chalcopyrite and molybdenite.				
534'6"-536'6"	2'	"	"	"	"					Fresh monzonite similar to previous interval, but with fractures filled with hairline to 1/16" seams of pyrite and chalcopyrite and minor molybdenite; locally associated with quartz veinlet. Occasional calcite - ankerite filling.				
536'6"-551'	14.5'	"	"	"	"					Similar to 521.5' to 534.5'; local serpentinized zone 548.5' to 549.5'.				
551'-567'6"	16.5'	Grn. Grey	Fine-Cse.	Clay- ey	"					Serpentinized monzonite with fractures 6" to 8" apart, mostly 50 to 60 degrees to core axis; hairline seams and disseminated molybdenite 551' to 554.5' and minor hairline seams of pyrite, chalcopyrite and molybdenite from 554.5' to 567.5'. Occasional 1/4" to 1/2" calcite seams at 30 degrees to axis, local ankerite.				
567'6"-573'	5.5'	Grey	Med./Gran.		"					Fresh monzonite with fractures about 4" to 6" apart, mostly 50 to 60 degrees to core axis, occasionally 45 degrees to axis. Fractures filled mostly with thin seams of calcite and local ankerite; minor hairline seams and disseminated pyrite, chalcopyrite and molybdenite. Local weathered, broken monzonite from 569' to 569.5'.				

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THE NEW JERSEY ZINC COMPANY

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
573'-589'	16.0	Grn. Grey	ied.	Clay-ey	Qtz. Monz.					Serpentinized monzonite with fracture 4" to 6" apart and from 40 to 60 degrees to core axis. Frequent calcite and ankerite seams up to 1/4" in width. Minor hairline seams of pyrite, chalcopyrite and molybdenite. Local abundant molybdenite and chalcopyrite from 579.5' to 580'. Minor disseminated pyrite, chalcopyrite and molybdenite, possible minor tetrahedrite. Sulphide seams more abundant 586' to 589'.				
589'-648'	59.0	Grey	"	Gran.	"					Fresh monzonite, locally light to moderately serpentinized; fracture spacing varies from 1/2" to 4", mostly at average of 45 degrees to core axis and filled with thin seams of calcite and ankerite; minor hairline seams and disseminated pyrite, chalcopyrite and molybdenite. Local 1/4" seam chalcopyrite at 642.8' associated with calcite seam.				
648'-653'6"	5.5	Grn. Grey	"	Clay-ey	"					Serpentinized monzonite with fracture about 6" apart mostly at 45 degrees to core axis; frequent calcite seams 1/4" wide and abundant calcite replacement 651' to 652'. Hairline seams of chalcopyrite, molybdenite, and possible tetrahedrite; minor disseminated sulphides.				
653'6"-673'6"	20.0	Grey	"	Gran.	"					Fresh monzonite with fractures averaging about 4" apart and inclined from 45 to 60 degrees to core axis. Fractures filled with hairline seams of pyrite and chalcopyrite and minor molybdenite. Some disseminated sulphides and chloritization.				
673'6"-679'	5.5	Grn-Grey	"	Clay-ey	"					Serpentinized monzonite with fracture about 4" apart, mostly at 45 degrees to core axis with hairline seams of chalcopyrite and molybdenite and some disseminated chalcopyrite and molybdenite. Abundant calcite replacement ~~676.5' to 677'~~.				

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THE NEW JERSEY ZINC COMPANY

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
679'-684'6"	5.5'	Grey	Med.	Gran.	Qtz. Monz.					Fresh monzonite with fractures about 6" apart mostly at 45 degrees to core axis and filled with hairline to 1/4" seams calcite. Minor disseminated pyrite and chalcopyrite.				
684'6"-689'6"	5.0	Grn. Grey	Fn. to Med.	Clay-ey	"					Similar to 673'6" to 679'.				
689'6"-702'	11.5	Grey	Med.	Gran.	"					Similar to 679' to 684'6" (Loc. Serp. 695' to 696.5')				
702'-707'6"	5.5'	"	"	"	"					Fresh monzonite, light grey, medium, fractures about 2" to 3" apart mostly 60 degrees to core axis and filled with hairline seams of chalcopyrite and molybdenite; minor disseminated chalcopyrite and molybdenite; loc. abundant cpy. 702.5'. Occasional fractures at 30 degrees to 45 degrees to core axis filled with thin seams of calcite.				
707'6"-717'6"	10'	"	Med.-Fine	"	"					Fresh to moderately serpentinized monzonite with fractures about 3" to 4" apart, mostly 60 degrees to core axis. Hairline seams of chalcopyrite and molybdenite. Local abundant molybdenite at 708.3'. Minor disseminated chalcopyrite and molybdenite. Numerous secondary fractures at 45 degrees and 10 to 20 degrees to core axis filled with hairline to 1/8" seams of calcite.				
717'6"-724'	6.5'	Grn. Grey	Med./Clay-ey	"						Intensely serpentinized monzonite with fractures about 2" to 4" apart, mostly 45 degrees to core axis, mostly filled with 1/8" calcite seams; some loc. qtz. filling. Hairline seams of cpy., possible tetrahedrite and molybdenite. Minor disseminated cpy. and moly.				

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THE NEW JERSEY ZINC COMPANY

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THE NEW JERSEY ZINC COMPANY

DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #2

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
724'-727'	3'	Grey	Med.-Fine	Gran.	/Qtz. Monz.					Fresh monzonite, light grey, medium to fine, with fractures about 4" to 6" apart, mostly 60 degrees to core axis, filled with hairline to 1/16" semas of pyrite, chalcopyrite and minor molybdenite. Minor disseminated pyrite and chalcopyrite. Occasional calcite seams at 45 degrees to axis.				
727'-729'	2'	Brn.-Grn.-Grey	Med. to Fine	Clay- "						Intensely serpentinized monzonite with abundant calcite and ankerite; fractures about 6" apart, mostly 45 degrees to core axis; minor hairline seams pyrite and chalcopyrite. Occasional fractures at 10 to 15 degrees to core axis filled with calcite crystals; loc. vug lined with calcite crystals at 728'.				
729'-751'	22'	Grey	Med.	Gran. "						Fresh monzonite, light grey, medium, with fractures about 6" apart, mostly 45 degrees to 60 degrees to core axis and filled with hairline to 1/8" seams of calcite and ankerite; minor hairline seams of limonite pitch and pyrite and chalcopyrite. Occasional secondary fractures 20 to 30 degrees to core axis with thin seams calcite. Local, minor serpentinization.				
										- Bottom of Hole: 751.0' -				

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THE NEW JERSEY ZINC COMPANY

DIAMOND DRILL LOG

Collared: 10/28/63
DATE Completed: 11/27/63

Near center of sideline common to GSB Claims #2 and #3, approximately 930' N 60° E from D.D.H. GSB #1

HOLE NO. GSB #3

COORDINATES Unsurveyed Section 20, T 19 S, R 19 E

ELEVATION 5980 (Approx.) BEARING N 56° W

INCLINATION -30°

Contractor Joy Mfg. Co.

LOCATION GSB Claims, Whetstone Mining District, Cochise County

Shed No.

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
0'-10'	0'						No recovery.				
10'-33'	23'	Brn. to Grey	Cse.	Gran.	Qtz. Monz.		Weathered monzonite, light brown to light grey, broken to massive, with fractures close-spaced to 1 foot or more apart, mostly at 60 degrees to axis; occasional fractures at 45 degrees; few at 15 degrees to axis. General iron stain. Some limonite and limonite pitch coating on fracture surfaces.				
33'-65'	32'	Grey	Cse. to Med.	Gran.	"		Fresh, massive, light grey monzonite with fractures about one foot or more apart, mostly 45 degrees to core axis; some at 60 degrees to axis. Few hairline seams of limonite pitch with minor flecks unoxidized sulphides (pyrite & chalcopyrite). Minor limonite stain and local chloritization. Local secondary Cu. stain. One inch basic seam normal to axis at 45.5'.				
65'-80.5'	15.5'	"	Med.	"	"		Fresh to soft broken monzonite with fractures about 3" to 6" apart. Principal fractures at 45 degrees to core axis; numerous shear fractures parallel to 20 degrees to core axis. Minor hairline seams and blebs of pyrite and chalcopyrite, partly oxidized. Moderate iron and copper stain on fracture surfaces. Local predominance of orthoclase. Minor ankerite.				
80.5'-86'	5.5'	Brn. & Grn. Grey	"	Clay-ey	"		Intensely serpentinized and crushed monzonite with local abundant iron stain; no visible sulphides. Absence of fresh biotite. Ankerite more abundant.				
86'-93'	7'	Grey	"	Gran.	"		Fresh monzonite with fractures 6" to one foot or more apart, mostly at 45 degrees to core axis. Local, closer-spaced fractures. Numerous ankerite veinlets. Minor hairline seams and blebs of pyrite and chalcopyrite.				

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #3

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE	
93'-96'	3'	Brn. to-Gn. Grey	Med.	Clay-ey	Qtz. Monz.					Serpentinized monzonite, similar to interval 80.5' to 86'.					
96'-173.5'	77.5'	Grey	Med.	Gran.	Qtz. Monz.					Fresh monzonite, similar to 86' to 93', except anhedrite veinlets sparse. Generally massive. Minor molybdenite and minor disseminated sulphides. Local moderate serpentinization and local predominance of orthoclase. Minor secondary copper stain. Local, more abundant sulphides associated with 1/16" to 1/8" calcite-ankerite veinlets at 122', 135' and 150'. Local small basic inclusions. Some shearing normal to core axis.					
173.5'-176'	2.5'	Brn. &-Gn. Grey	"	Clay-ey	"					Intensely serpentinized monzonite with abundant iron stain. Absence of fresh biotite.					
176'-179'	3'	Grey	Med.	Gran.	"					Fresh monzonite similar to interval 96' to 173.5'.					
179'-185.5'	6.5'	Grn.-Grey	"	Clay-ey	"					Intensely serpentinized monzonite with fractures about 6" to 3" apart at 60 to 70 degrees to core axis. Frequent 1/16" calcite veinlets at 30 degrees to core axis; local close-spaced 1/8" to 1/2" calcite veinlets between 182' and 183'; some quartz. Few calcite veinlets at 5 degrees to 15 degrees to axis. Minor pyrite, chalcopyrite and tetrahedrite associated with quartz veinlets. Some disseminated hematite freckles.					
185.5'-218'	32.5'	Grey	"	Gran.	"					Fresh monzonite, massive, with some fracturing at 60 degrees and 45 degrees to core axis. Occasional 1/16" to 1/4" quartz veinlets with some calcite and thin asperoid seams along monzonite contact. Minor pyrite and chalcopyrite associated with quartz veinlets. Local light to moderate serpentinization.					

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THE NEW JERSEY ZINC COMPANY

Logged by:

X5421-2H-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #3

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS
218'-227'	9'	Grn.-Grey	Cse. to Med.	Gran.	Qtz. Monz.		Serpentinized monzonite with frequent quartz veinlets 1/8" to 1/2" at 30 degrees to core axis; some calcite. Some shearing. Occasional quartz veinlets at 60 degrees to core axis with more abundant associated pyrite and chalcopyrite than previous intervals. Minor tetrahedrite.
227'-238.5'	11.5'	Grey	Med.	"	"		Fresh monzonite alternating with intervals of light to moderately serpentinized monzonite. Frequent 1/8" quartz veinlets at 30 degrees to core axis. Sparse sulphides (Pyrite and Chalcopyrite) associated with a few quartz veinlets at 60 degrees to core axis.
238.5'-261'	22.5'	"	"	"	"		Fresh monzonite with pinkish cast, fractured to massive with occasional hairline to 1/8" quartz veinlets at 30 degrees to core axis. Fractures at 60 degrees and 45 degrees to axis. Very sparse sulphides, mostly pyrite; some chalcopyrite, minor molybdenite.
261'-267.5'	6.5'	Grn.-Grey	"	Clay-ey	"		Intensely serpentinized with fractures 6" to one foot or more apart, mostly at 60 to 70 degrees to core axis. New fractures at 15 to 20 degrees to axis, filled with calcite, some quartz. Hairline seams of pyrite, chalcopyrite, tetrahedrite and molybdenite. Some molybdenite associated with one fracture inclined at 20 degrees to axis. Local hematite freckles.
267.5'-295'	27.5'	Grey	"Gran.		"		Fresh monzonite, fractured to massive, with fractures 6" to one foot or more apart, mostly at 60 degrees to core axis. Hairline to 1/8" seams of pyrite, chalcopyrite, and minor molybdenite. Some bornite associated with chalcopyrite. Local short intervals of light to moderate serpentinization associated with calcite and quartz veinlets at 45 degrees and 30 degrees to core axis.

SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE

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FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
295'-298'	3'	Grn.-Grey	Med.	Clay-ey	Qtz. Monz.					Intensely serpentinized monzonite, similar to interval 261' to 267.5'.				
298'-312'	14'	Grey	Med.	Gran.	"					Fresh monzonite, similar to interval 267.5' to 295' with closer spaced quartz veinlets.				
312'-360'	48'	"	"	"	"					Fresh monzonite, fractured to massive, with few quartz veinlets. Fractures about 6" to one foot apart mostly at 60 degrees to core axis. Local, close-spaced fractures 339' to 340' and 352'-353'. Hairline to 1/8" seams of sulphides, mostly pyrite; some chalcopyrite and molybdenite. Occasional hairline seams of red-brown hematite. Occasional fractures at 45 degrees to axis; few at 15 degrees to 30 degrees. Some mineralization noted on one fracture at 20 degrees to axis. Pyrite coating on many fracture surfaces is finely divided. Abundant fresh biotite.				
360'-418'	58'	"	"	"	"					Fresh monzonite with fracture spacing averaging about 6" apart locally closer-spaced. Principal fractures at 60 to 70 degrees to core axis, and almost all filled with hairline to 1/8" seams of sulphides ranging from mostly pyrite to mostly chalcopyrite; minor molybdenite. Local, more abundant molybdenite at 413.7'. Few quartz veinlets at 45 and 30 degrees to core axis. Minor hematite coating on some fracture surfaces. Local, light to moderate serpentinization associated with quartz veinlets.				
418'-420'	2'	Grn.-Grey	"	Clay-ey	"					Intensely serpentinized monzonite with hairline to 1/2" quartz veinlets at 45 degrees and 30 degrees to core axis. Few hairline seams of pyrite, chalcopyrite, tetrahedrite, and minor molybdenite.				

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #3

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
420'-429'	9'	Grey	Med.	Gran.	Qtz. Monz.					Fresh to moderately serpentinized monzonite with fractures about 6" apart mostly at 60 degrees to core axis. Hairline to 1/8" seams of pyrite, chalcopyrite, and minor molybdenite. Occasional 1/8" quartz veinlets at 30 degrees to 45 degrees to core axis throughout interval; some calcite.				
429'-469'	40'	"	"	"	"					Fresh monzonite similar to interval 360' to 418'. Fractures about 4" to 6" apart, mostly at 50 to 60 degrees to core axis. Most fractures filled with hairline to 1/8" seams of sulphides predominantly chalcopyrite; some pyrite and minor molybdenite. Chalcopyrite occurs as platey coatings on fracture surfaces. Orthoclase occurs along some fractures. Light serpentinization associated with occasional quartz veinlets. A 1½" aplitic dike inclined 60 degrees to core axis occurs at 452'. Few calcite veinlets at 20 to 30 degrees to core axis.				
469'-498'	29'	Grey to Grn.-Grey	"	Gran. to Clay-ey	"					Light to moderately serpentinized monzonite alternating with intervals of fresh monzonite. Fractures about 6" apart mostly at 60 degrees to core axis. Fractures filled with hairline to 1/8" seams of chalcopyrite and minor tetrahedrite, bornite, and molybdenite. Occasional quartz veinlets 1/16" to 1/4" at 30 to 50 degrees to core axis. Orthoclase occurs along some fractures.				
498'-507'	9'	Grn.-Grey to yel. gy.	"	Clay-ey	"					Intensely serpentinized monzonite with fractures 4" to 6" apart mostly at 60 degrees to core axis. Local, close-spaced fractures. Hairline to 1/8" seams of chalcopyrite and greater proportion of associated tetrahedrite than previous interval. Minor molybdenite. Frequent 1/16" to 1/4" quartz veinlets at 30 to 50 degrees to core axis and more or less normal to mineralized fractures.				

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FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS
507'-513'	6'	Grey	Med.	Gran.	Qtz. Monz.					Alternating fresh and moderately serpentinized monzonite similar to interval 469' to 498'.
513'-515'	2'	Grn.-Grey	"	Clay-ey	"					Intensely serpentinized monzonite similar to interval 498' to 507'.
515'-523'	8'	Grey	"	Gran.	"					Alternating fresh and moderately serpentinized monzonite similar to interval 507' to 513'.
523'-534'	11'	Grn.-Grey	"	Clay-ey	"					Intensely serpentinized monzonite with fractures about 6" apart mostly at 60 degrees to core axis. Local, more intense fracturing and abundant pyrite and chalcopyrite with quartz between 526' and 526.7' and between 527.5' and 528.3'. Frequent quartz veinlets at 30 degrees to core axis with some truncation of sulphide seams; occasional veinlet (quartz and calcite) at 60 degrees to core axis. Light hematite freckling throughout interval. Minor molybdenite. Some disseminated pyrite and chalcopyrite.
534'-538'	4'	Grey	Med. to Fine	Gran.	"					Fresh monzonite with fractures about 6" to 8" apart mostly at 60 degrees to axis. Occasional hairline seams of pyrite and chalcopyrite. Few quartz veinlets at 30 degrees to core.
538'-543'	5'	Grn.-Grey	Med.	Clay-ey	"					Intensely serpentinized monzonite with fractures 4" to 6" apart mostly at 60 degrees to core axis. Hairline to 1/16" seams of pyrite, chalcopyrite and tetrahedrite; minor molybdenite. Few quartz veinlets at 60 degrees to core; frequent quartz-calcite veinlets at 30 to 50 degrees to core and normal to mineralized fractures. Some disseminated pyrite and chalcopyrite.

SPLIT CORE ANALYSES			
FOOTAGE	Zn	Pb	AVERAGE

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DIAMOND DRILL LOG

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COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
543'-594'	51' &	Grey Gn.-Grey	Med.	Gran.	Qtz. Monz.					Alternating fresh and serpentinized monzonite with fractures 6" to one foot or more apart with principal fractures at 60 degrees to core axis. Occasional hairline seams of pyrite and chalcopyrite with some tetrahedrite in serpentinized zones. Minor disseminated pyrite and chalcopyrite. Occasional quartz-calcite veinlets persist through interval. Orthoclase occurs along some fractures. Intense serpentinization between 559' and 563'.				
594'-598.5'	4.5'	"	"	"	"					Alternating fresh and serpentinized monzonite similar to 543' to 594'. Orthoclase occurs along some fractures associated with quartz-calcite veinlets. Sparse pyrite and chalcopyrite; minor molybdenite.				
598.5'-618'	19.5'	Grey	"	"	"					Fresh monzonite with fractures 6" to one foot or more apart inclined at 60, 45 and 30 degrees to core axis. Absence of quartz-calcite veinlets except in few 30 degree fractures. Sparse pyrite and chalcopyrite plating few fracture surfaces (60 degrees); minor molybdenite. Abundant fresh biotite.				
618'-621.5'	3.5'	Grn.-Grey	"	Clay-ey	"					Serpentinized monzonite intensely fractured with fractures at 60 degrees to core axis. Occasional quartz veinlets 1/16" to 1/2" with associated hairline seams of pyrite and chalcopyrite along contacts with monzonite. Orthoclase occurs adjacent to quartz veinlets.				
621.5'-633'	11.5'	Grey	"	"	"					Fresh monzonite similar to 598.5' to 618'. Occasional quartz veinlets at 30 and 45 degrees. Minor sulphides.				
633'-641.5'	8.5'	Grey to Grn.-Grey	"	Gran.	"					Alternating fresh and serpentinized monzonite similar to 594' to 598.5'. Sparse sulphides (pyrite and chalcopyrite).				

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DATE _____ HOLE NO. GSB #3

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
641.5'-644'	2.5'	Grn.-Grey	Med.	Clay-ey	Qtz. Monz.		Serpentinized monzonite similar to 618' to 621.5'. Minor sulphides (pyrite and chalcopyrite).				
644'-651'	7'	Grey	"	Gran.	"		Fresh monzonite with sparse pyrite and chalcopyrite plating of few fracture surfaces. Occasional quartz veinlets at 30 degrees and 45 degrees. Principal fractures at 60 degrees, about 4" apart. Some hematite coating on 45 degree fractures. Mostly pyrite in lower part of interval. Minor disseminated pyrite and chalcopyrite. Local moderate serpentinization 649' to 650' with close-spaced fractures at 30 and 45 degrees to axis.				
651'-713'	62'	"	"	"	"		Fresh monzonite with fractures 4" to about one foot apart. Principal fractures inclined at 60 degrees to core axis. Occasional secondary fractures at 45 degrees and few at 20 to 30 degrees. Sparse pyrite and chalcopyrite plating on some 60 degree fracture surfaces. Minor molybdenite with local, more abundant occurrence in 60 degree fractures at 681'. Short serpentinized intervals at 652.5' to 654.5', 659' to 660', 674'-675.5', and 687' to 688', associated with quartz-calcite veinlets. Orthoclase is associated with a few quartz veinlets.				
							- Bottom of Hole 713' -				

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THE NEW JERSEY ZINC COMPANY

DIAMOND DRILL LOG

On GSB #2 Claim Approximately 140'
N 44° E from DDH-GSB #1

DATE: Collared: 12/2/63
Completed: 2/7/64

HOLE NO. GSB #4

COORDINATES: Unsurveyed Section 20, T 19 S, R 19 E

ELEVATION: 6130 (approx.)

BEARING: N 65° W

INCLINATION: -60°

Contractor: Joy Mfg. Co.

LOCATION: GSB Claims, Whetstone Mining District, Cochise County, Arizona.

Shed No.

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
0-10'	10'						No recovery.				
10-31'	21	Brn.	Cse.	Gran. to Clay-ey	Qtz. Monzonite		Weathered, brown, massive to soft and broken monzonite. Strong iron staining through entire interval. Occasional fractures at 60 degrees to core axis. Fracture surfaces coated with gossanous film. Serpentinized zones between 18' and 20', 23' and 24', and 30-31'. Entire interval is oxidized.				
31-37'	6'	Lt. Grey	Cse. to Med.	Gran.	"		Fresh to moderately weathered and broken monzonite. Intensely fractured with fractures inclined mostly at 45 degrees and 20 to 30 degrees to core axis. Frequent ankerite veinlets mostly at 30 degrees to core. Limonite coating on some fracture surfaces. Some evidence of shearing along 30-degree plane to core axis. Entire interval in oxidized zone. Minor secondary Cu stain on few fracture surfaces.				
37-41'	4'	Brn.	Cse.	"	"		Weathered monzonite, soft and broken. Highly oxidized interval with abundant iron stain throughout. Locally serpentinized.				
41-60'	19'	Grey	Cse. to Med.	"	"		Fresh to moderately weathered, intensely fractured to massive monzonite. Fractures inclined at 30 degrees and 45 degrees to core axis. Most fractures coated with limonite and some secondary copper stain. Occasional hairline seams of limonite pitch contain a few blebs of pyrite and chalcopyrite. Occasional calcite veinlets contain minor associated ankerite.				

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THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
60-67'	7'	Brn.-Grey	Cse. to Med.	Gran. to Clay-ey	Qtz. Monzonite					Alternate short intervals of intensely serpentinized monzonite and fresh monzonite. Occasional calcite veinlets at 60 degrees to core; increase in associated ankerite. Sparse hairline seams of partly oxidized pyrite and chalcopyrite; minor tetrahedrite in serpentinized intervals 60-62', 64-65', and 66-67'. Also minor Cu stain.				
67-72'	5'	Brn.	Med.	Gran.	Qtz. Monzonite					Intensely fractured, fresh to moderately weathered monzonite. Fracture surfaces coated with limonite. Occasional calcite veinlets with some ankerite. Oxidized interval.				
72-92'	20'	Grey	Med.	"	"					Fresh monzonite, massive, with fractures 6" to one foot apart and inclined mostly at 60 degrees to core axis. Some fracturing parallel to core. Occasional hairline seams of partly oxidized pyrite and chalcopyrite at 30 degrees to core axis. Calcite-ankerite veinlets persist through the interval. Local serpentinized zone between 74' and 75.5' is laced with 1/8" to 1/2" calcite veinlets at 60 degrees to core axis.				
92-97.5	5.5	Grn.-Grey	"	Clay-ey	"					Intensely serpentinized monzonite, massive, with frequent calcite veinlets at 60 degrees to core and few hairline seams of finely divided pyrite and chalcopyrite at 30 degrees to core.				
97.5-105'	7.5	Grey	"	Gran.	"					Fresh monzonite with fractures 6" to one foot or more apart at 60 and 20 degrees to core axis and coated with gossanous film; some calcite-ankerite veinlets at 20 degrees to core. Few hairline seams of pyrite & chalcopyrite at about				

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THE NEW JERSEY ZINC COMPANY

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X5421-2M-2-58

THE NEW JERSEY ZINC COMPANY

DIAMOND DRILL LOG

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DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
							40 degrees to core and partly oxidized.				
105-133'	28'	Grey to Grn.-Grey	Med.	Gran. to Clayey	Qtz. Monzonite		Alternate zones of fresh and serpentinized monzonite, massive to moderately fractured. Serpentinized zones occur between 105'-106', 108.5'-110.5', 115.5'-119.5', and 131'-133'. Fractures at 60 and 20 degrees to core axis. Most fracture surfaces are iron stained. Occasional calcite-ankerite veinlets at 20 and 60 degrees to core. Few hairline seams of pyrite and chalcopyrite with minor associated tetrahedrite in serpentinized zones.				
133-158'	25'	Grey	"	Gran.	Quartz Monzonite		Fresh monzonite with fractures about 6" apart and inclined mostly at 45 to 60 degrees to core axis. Occasional hairline seams of pyrite and chalcopyrite at 30 degrees to 40 degrees to core. Sulphides are not oxidized and are slightly more abundant than in previous intervals. Few fractures parallel to 20 degrees to core axis. Moderate chloritization throughout interval.				
158-168'	10'	Grn. to Grn.-Grey	"	Gran. to Clayey	"		Alternate zones of fresh and serpentinized monzonite similar to interval 105'-133', but not oxidized. Serpentinized zone at 158'-159' and 162'-164'. Sparse pyrite and chalcopyrite.				
168-169'	1'	Grey	"	Gran.	"		Same as 158' to 168'.				
169-182'	13'	"	"	"	"		Fresh monzonite with fractures 3" to 6" apart and inclined mostly at 45 to 50 degrees to the core axis. Locally broken; also local light to moderate serpentinization. Moderate chloritization associated with				

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XS421-2M-2-59

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
169-182'	(Continued)									some fractures. Sparse blebs of pyrite and chalcopyrite.				
182-185.5'	3.5'	Grn.-Grey	Med.	Clay-ey	Fm: Qtz. Monzonite					Intensely serpentinized monzonite with fractures about 6" apart and inclined at about 70 to 80 degrees to the core. Occasional quartz-calcite veinlets up to 1" at 60 degrees to core. Minor pyrite & chalcopyrite.				
185.5-200'	14.5'	Grey	"	Gran.	Qtz. Monz.					Fresh monzonite, massive in general; locally fractured and broken. Occasional quartz veinlets at 60 degrees to core with local associated light to moderate serpentinization. Intense serpentinization between 190 and 191 feet. Sparse hairline seams of pyrite and chalcopyrite; minor molybdenite.				
200-230.5'	30.5'	"	"	"	"					Fresh monzonite with fractures 4" to one foot or more apart and inclined mostly at 30 degrees to 40 degrees to core axis. Occasional fractures at 60 degrees to core, few fractures at 5 to 15 degrees to core. Some shearing at 30 degrees to core. Local light to moderate serpentinization associated with some fractures. Marked increase in sulphide content. Frequent hairline to 1/8" seams of pyrite and chalcopyrite at 30 degrees to core with increase in molybdenite & disseminated pyrite and chalcopyrite.				
230.5'-235.5'	5'	"	"	"	"					Moderately serpentinized monzonite fractured parallel to core and at 45 degrees to core. Some shearing parallel to core. Light hematite coating on fracture surfaces. Sparse pyrite & chalcopyrite.				
235.5-281.5'	46'	"	"	"	"					Fresh monzonite with fractures 4" to 6" apart and inclined mostly at 30 degrees to core axis. Secondary fractures at 60 and 45 degrees to core. Few fractures parallel to 15 degrees to core. Most 30-degree fractures are filled with hairline to 1/4" seams of pyrite, chalcopyrite, and				

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DIAMOND DRILL LOG

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FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
235.5-	281.5'	(Continued)					molybdenite; minor bornite. Some disseminated pyrite and chalcopyrite throughout the interval. Local light to moderate serpentinization associated with a few quartz-calcite veinlets at 60 and 45 degrees to core. Light hematite coating on a few fracture surfaces. Moderate chloritization associated with some fractures.				
281.5-292'	10.5'	Grn.-Grey	Med.	Clay-ey	Qtz. Monzonite		Intensely serpentinized monzonite with fractures 2" to 4" apart and inclined mostly at 30 degrees to core axis. Fractures are filled with hairline to 1/8" seams of pyrite, chalcopyrite and tetrahedrite, minor molybdenite. Frequent hairline to 1" quartz-calcite veinlets at 60 and 45 degrees to core. Interval contains some fresh monzonite.				
292-294'	2'	Grey	"	Gran.	"		Fresh monzonite similar to interval 235.5' to 281.5'.				
294-297'	3'	Grn.-Grey	"	Clay-ey	"		Intensely serpentinized & chloritized monzonite similar to interval 281.5' to 292'. Sulphide seams are closely associated with thicker (1/2" or more) quartz veinlets.				
297-324'	27'	Grey	Med. to Fine	Gran.	"		Fresh monzonite moderately fractured to massive. Frequent hairline to 1/8" seams of pyrite, chalcopyrite and molybdenite at 30 to 40 degrees to core axis. Few hairline seams parallel to 15 degrees to core. Occasional quartz-calcite veinlets at 60 and 45 degrees to core. Local moderate serpentinization associated with veinlets; also moderate chloritization. Some disseminated pyrite, chalcopyrite & moly				
324-333'	9'	Grn.-Grey	"	Clay-ey	"		Intensely serpentinized and chloritized monzonite. Shear zone between 327' and 330' at 60 degrees to core axis; interval contains gouge and broken, intensely serpentinized monzonite with few seams of pyrite, chalcopyrite and molybdenite; local chalcocite enrichment. Some tetrahedrite. Intervals before and after shear zone contain occasional hairline to 1/8" seams				

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COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

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FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %	REMARKS
324'-333' (Continued)							of pyrite, chalcopyrite, tetrahedrite and molybdenite. Occasional calcite-quartz veinlets persist through the interval
333-352'	9'	Grey	Med. to fine	Gran.	Qtz. Monzonite		Fresh monzonite similar to interval 297' to 324'.
352-384'	32'	Grn.-Grey	"	Clay-ey	"		Intensely serpentinized monzonite similar to interval 324' to 333'. Local, more abundant chalcopyrite associated with 1" quartz-calcite veinlet at 360', inclined 30 degrees to core axis. Chloritized. Some fine sericite at 370 feet. Chalcopyrite, pyrite, molybdenite and minor tetrahedrite occur with quartz and calcite along indistinct fractures. Some hematite is also present. Sulphide minerals occur along fractures at 50, 30 and 10 degrees to the core axis. Some sulphides are disseminated, and these are principally pyrite.
384-425'	41'	Grey	"	Gran.	"		Alteration is limited to a softening of the feldspars along fractures. Biotite is fresh and unaltered. Chalcopyrite, pyrite, and local molybdenite occur along fractures which average 2" apart. Most of the sulphides occur along fractures at 15 degrees to the core axis. Significant chalcopyrite and pyrite are also locally disseminated, occurring with the mafic constituents. Magnetite is an accessory mineral.
425-479'	54'	Grey	Med.	"	"		Fresh monzonite with alteration limited to softening of feldspars along fractures. Moderately fractured with principal fractures at 15 degrees to core axis; secondary fractures at 45 to 60 degrees to core axis. Some shearing at 15 degrees to core. Chalcopyrite, pyrite, and molybdenite occur as blebs and partial fillings in the 15-degree fractures. Some chalcopyrite, pyrite and molybdenite occur as local disseminations. Magnetite is an accessory mineral. Quartz, calcite, and minor hematite occur in a few of the sulphide seams.

SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF.
THE NEW JERSEY ZINC COMPANY

XS421-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE	
479-483'	4'	Grey	Med.	Gran.	Qtz. Monzonite					Fresh monzonite similar to 425' to decreasing sulphides and increase in hematite parallel to core and at 60 degrees to core. Some shearing. parallel to core axis.	479' except with in fractures				
483-487'	4'	"	"	"	"					Same as 479' to 483'.					
487-509'	22'	"	"	"	"					Fresh monzonite similar to interval 425' to 479'. Principal fractures at 15 to 30 degrees to core axis 4" to 6" apart; locally 1" or less apart. Occasional fractures at 45 degrees and 60 degrees to core with some associated hematite coating of fracture surfaces. Chalcopyrite, pyrite, and molybdenite with quartz and calcite occur as blebs and indistinct seams in the 15 to 30 degree fractures. Some disseminated sulphides are associated with the mafic constituents. Magnetite is an accessory mineral. Local chloritization.					
509-562'	43'	"	"	"	"					Fresh monzonite similar to interval 487' to 509' except mineralized fractures are mostly inclined at 25 to 30 degrees to core axis; few at 15 degrees to core. Softened feldspar alteration common to most fractures. Occurrence of molybdenite with chalcopyrite and pyrite decreases below 531', and occurrence of quartz-calcite veinlets and chloritization increases. Orthoclase occurs locally along some fractures at 60 degrees to core. Minor disseminated pyrite and chalcopyrite.					
562-569'	7'	"	"	"	"					Fresh monzonite with fractures parallel to core axis and at 45 degrees to core; locally broken. Softening of feldspars is common to most fractures. Frequent quartz-calcite veinlets at 30, 45, and 60 degrees to core axis. Few hairline seams of pyrite, chalcopyrite, and minor molybdenite at 20 to 30 degrees to core. Local chloritization.					
569'-574.5'	5.5'	"	"	"	"					Same as interval 562' to 569'.					

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF. THE NEW JERSEY ZINC COMPANY

Logged by:

X5421-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
574.5-596'	21.5'	Grey to Grn.-Grey	Med.	Gran. to Clay-ey	Fn: Qtz. Monz.					Soft, broken and crushed monzonite with some remnants of fresh monzonite. Softened feldspar alteration common through out the interval; locally serpentinized and chloritized. Gouge-filled shear zone between 589' and 591'. Occasional sulphide seams at 20 to 30 degrees to core axis vary in content from mostly pyrite to mostly molybdenite; some chalcopyrite. Local, more abundant molybdenite occurs at 579.5', 581.5' and 583'. Occasional quartz-calcite veinlets persist through the interval. Orthoclase occurs locally between 593' and 594'.				
596-599	3'	"	"	"	"					Same as 574.5' to 596'.				
599-609'	10'.									Alternate short intervals of fresh and serpentinized monzonite. fresh intervals have pinkish cast and fractures are 4" to 6" apart, mostly at 60 degrees to the core axis; some 45-degree fractures; serpentinized intervals are soft and broken. Occasional indistinct seams of pyrite, chalcopyrite, and molybdenite with quartz and calcite at 30 degrees to core axis. Local, more abundant molybdenite at 604.5'. Some disseminated sulphides associated with mafic constituents.				
609-624'	15'									Serpentinized and chloritized monzonite, soft and broken to massive. Fractures are 6" to one foot or more apart at 45 & 60 degrees to core axis. Few seams of pyrite and chalcopyrite at 30 degrees to core; minor molybdenite and tetrahedrite. Occasional quartz-calcite veinlets at 45 degrees to core				
624-635'	11'									Fresh monzonite with pinkish cast similar to fresh intervals between 599' and 609'. Local serpentinization and chloritization associated with some fractures. Occasional [illegible] to 1/8" seams of pyrite, chalcopyrite, and molybdenite [illegible] to core. Minor disseminated sulphides. [illegible] feldspars associated with most 45-degree				

WHILE WE BELIEVE THIS INFORMATION TO BE

X5021-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
635-642'	7'									Broken to crushed monzonite with general softening and alteration and local serpentinization. Occasional calcite veinlets at 45 degrees to core axis. Minor pyrite and chalcopyrite in a few fractures at 30 degrees to core. (Core recovery about 40% for this interval).				
642-665'	6'	Grn. to Grn.-Grey	Med. to Clayey	Gran.	Quartz Monzonite					Broken to soft crushed monzonite locally serpentinized between 647.5' and 648.5'. Alteration in the form of softening of the feldspars is common throughout the interval. Interval contains frequent clayey gouge zones which are very incompetent and only partially recovered in the core. Contacts are normal to the core. Frequent fractures are mostly at 45 and 60 degrees to the core axis. Few indistinct seams of pyrite, chalcopyrite, and minor molybdenite at 30 degrees to core. Overall core recovery for the interval is about 25 per cent.				
665-671.5'	6.5'	Grey	Med.	Gran.	"					Broken monzonite with general softening of the feldspars through the interval; clayey gouge from 666.5' to 669' and 670' to 671.5'. Fractures mostly at 60 degrees to core and normal to core. Few seams of pyrite, chalcopyrite, and minor molybdenite at 40 to 50 degrees to the core axis. Few quartz veinlets at 60 degrees to the core; also some shearing at 70 degrees with thin smear of finely divided pyrite on slip surfaces. Good core recovery was maintained through the interval.				
671.5-680'	8.5'	Grn.-Grey	"	Clayey	"					Serpentinized and chloritized monzonite with few remnants of fresh monzonite. Fractures are inclined at 30 and 60 degrees to the core axis; some shearing at 30 degrees to core. Occasional hairline to 1/16" seams of chalcopyrite, pyrite, molybdenite, and minor tetrahedrite at 30 degrees to core. Some shear surfaces show slickenside coating of molybdenite.				

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THE NEW JERSEY ZINC COMPANY

XS421-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
80-97'	7'	Grey	Med.	Gran.	Qtz. Monzonite					Fresh fractured to broken monzonite with general alteration of feldspars along fractures. Local serpentinization associated with few fractures. Occasional hairline to 1/16" seams of chalcopyrite, pyrite and molybdenite at 30 degrees to core axis.				
697-702'	5'	Grn.-Grey	Med.	Clay-ey	"					Serpentinized and chloritized monzonite with occasional fractures at 30 and 45 degrees to core axis. Hairline seams of chalcopyrite, pyrite, and molybdenite confined to 30 degree fractures.				
702-742'	40'	Grey	Med.	Gran.	"					Fresh, massive monzonite with some local serpentinization associated with a few fractures. Feldspar alteration occurs locally with isolated quartz veinlets and is associated with a series of 1/8" quartz veinlets at 60 degrees to core axis in interval from 726' to 727'. Longer serpentinized interval occurs between 739' and 740.5'. Occasional hairline to 1/16" seams of chalcopyrite, pyrite, and molybdenite at 30 degrees to core axis. One sulphide seam normal to the core axis occurs at 714.5' and intersects a seam inclined at 30 degrees to the core. A few fractures occur parallel to the core axis.				
742-748'	6'	Grey	Med.	Gran.	"					Fresh monzonite, similar to 702'-742'. Fresh rock has pinkish cast. Fractures are about 6" apart and are inclined at 30, 40 & 60 degrees to the core axis. Local serpentinization is associated with quartz-calcite veinlets at 30 and 60 degrees to core. Sparse chalcopyrite, pyrite and molybdenite accompany few of the veinlets inclined at 30 degrees. Minor disseminated chalcopyrite & pyrite associated with mafic constituents.				
748-754.5'	6.5	Grn.-Grey	Med. to Fine	Clay-ey	"					Intensely serpentinized & chloritized monzonite well laced with quartz-calcite veinlets at 30 & 60 degrees to core axis; locally vuggy. Sparse hairline seams of chalcopyrite, pyrite, & tetrahedrite at 30 degrees to core. Local hematite freckles				

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THE NEW JERSEY ZINC COMPANY

Logged by:

X5421-2M-2-58

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE
754.5-768'	13.5'	Grey	Med.	Gran.	Qtz. Monzonite					Fresh monzonite similar to 742' to 748', with some increase in fracturing and chalcopyrite and molybdenite from 762' to 766.5'. Magnetite is an accessory constituent.				
768-769.5'	1.5'	Grn.-Grey	Med. to Fine	Clay-ey	"					Intensely serpentinized and chloritized monzonite with frequent hairline to 1/8" seams of chalcopyrite, pyrite and molybdenite at 30 degrees to the core axis. Occasional quartz-calcite veinlets at 30 and 60 degrees to core. Locally more abundant molybdenite is associated with a 1/2" quartz veinlet inclined 30 degrees to core at 768.5'. Some disseminated chalcopyrite, pyrite and molybdenite.				
769.5-847'	77.5'	Grey	Med. to Fine	Gran.	"					Fresh monzonite, massive to moderately fractured. Fractures 6" to one foot or more apart and inclined mostly at 30 and 60 degrees to core axis. Interval contains short serpentinized zones at 792' to 795', 803' to 805.5', 811.5' to 812.5', 819' to 821', and 831' to 832.5'. Local serpentinization and softening of feldspars is also associated with a few quartz-calcite veinlets which occur occasionally throughout the interval at both 30 and 60 degrees to the core. Occasional hairline to 1/8" seams of chalcopyrite, pyrite, and molybdenite persist through the interval and are inclined at 30 degrees to the core. Minor tetrahedrite occurs in the serpentinized zones. Minor disseminated chalcopyrite, pyrite, and molybdenite are associated with mafic constituents through the interval.				
847-909'	62'	Grey	Med.	Gran.	"					Fresh monzonite, massive, with fractures 6" to one foot or more apart inclined mostly at 30 and 60 degrees to core axis. Local serpentinization associated with a 1" quartz-calcite veinlet at 847.5'. Local, closer-spaced fractures inclined from 30 degrees to 50 degrees in the interval 852' to 853'. Sparse hairline seams of chalcopyrite, pyrite and molybdenite are inclined 30 degrees to the core axis. Local, more abundant chalcopyrite and molybdenite in 1/8" seam at 875.5'				

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT, WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME ANY RESPONSIBILITY FOR, THE CORRECTNESS THEREOF. THE NEW JERSEY ZINC COMPANY

Logged by:

XSM21-2M-2-53

THE NEW JERSEY ZINC COMPANY
DIAMOND DRILL LOG

DATE _____ HOLE NO. GSB #4

COORDINATES _____ ELEVATION _____ BEARING _____ INCLINATION _____

Contractor _____ LOCATION _____ Shed No. _____

FOOTAGE	CORE	COLOR	TEXTURE Grain	TEXTURE Other	Fm.	MINERAL COMP. %				REMARKS	SPLIT CORE ANALYSES FOOTAGE	Zn	Pb	AVERAGE	
909-932.5'	23.5'	Grey	Med.	Gran.	Qtz. Monzonite					Fresh monzonite, fractured to massive with fractures 2" to one foot apart and mostly normal to the core. Some fracturing parallel to core and at 30 degrees to core. Few quartz-calcite veinlets at 30 and 60 degrees to the core. Local softening of feldspars associated with some fractures. Minor chalcopyrite, pyrite, and molybdenite along few 30-degree fractures. Biotite is the principal mafic constituent.					
932.5-950.5'	18'	Grey to Grn.-Grey	Med.	Gran. to Clayey	"					Alternating short intervals of fresh and serpentinized and chloritized monzonite, massive to broken. Fractures are mostly at 60 and 30 degrees to the core axis. Occasional quartz-calcite veinlets at 60 and 30 degrees to the core. Blebs of chalcopyrite and pyrite are associated with some of the 30-degree veinlets; local, more abundant chalcopyrite and pyrite at 937.5' and 938'. Minor tetrahedrite in few hairline seams in serpentinized zones. Minor disseminated chalcopyrite and pyrite. Local softening of feldspars is associated with some fractures.					
										- Bottom of Hole - 950.5' -					

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THE NEW JERSEY ZINC COMPANY

11-25-70
Note: Geological data and drill information taken from such data by Kiva Survey Zone Co.

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DUVAL CORPORATION

DUVAL SULPHUR & POTASH COMPANY
COPPER DIVISION — TUCSON, ARIZONA

Location Map Showing Mineral Rights Owned in Cochise Co., Ariz. (Cable Properties)

App'd by	Scale 1" = 400'	Date 10-1-70
App'd by	Drawn by JRM	Drawing No. B-690
App'd by	Ch'k'd by	

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

Sheet 1 of 11

PROJECT: Whetstone

START 2-6-70 COMPL. 3-20-70 WHD HOLE No. 1

COORD.: N ____ E ____ EL. ____ BRG. N56°W INCL. 60 LOCATION Whetstone Dist., Cochise Co. Arizona T.D. 1312 DRILLED BY: Joy

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE	VOL.-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS PPM Cu	AS Cu	Mo		Cu eq.			Graph. rx	cr
	Grnt							8																30°-65° frac	Pt decomposed near-surf	0	JES											
																								occ. pyr in frac	ox along frac													
																										100												
																										92												
25																									sm qtz intr w/ pyr @ 33'													
																									Conc mafic @ 36' & 66'	100												
																										100												
50																																							
																										95		206	50		47		<5					
																																	"					
		1	7																					f. Cal. vnlt @ 50°	altar vn @ 65.5'	97		207	60		64		"					
																																	"					
75																										107		208	70		220		"					
																2	1							40° frac	Sulf in frac								"					
		1	7				5									1	1							Shat 78'-78.5'	1½" qtz cal. vn @ 79.5' w/sulf	100		209	80		210		"					
				6										2										30° mnrl. frac	75° thn carb vnlt 80'-81'								"					
																1	1							40° mnrl frac		98		210	90		900		"					
									7							1	1							30° mnrl frac @ 96.5									"					
100				5						2						1								ox Shr 103'-105'		105		211	100		290		"					
				5												2								40° pyr frac, Shr zn 106-111'									"					
									6							1										87		212	110		760		"					
									6							1								50° pyr frac; 30% 20% dism. pyr.									"					
125									6						2	1								// S/K frac 121'-129'		94		213	120		600		"					

Geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT: Whetstone

START _____ COMPL. _____ WHD HOLE No. 1

COORD.: N _____ E _____ EL. _____ BRG. _____ INCL. _____ LOCATION _____ T.D. _____ DRILLED BY: Jay

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (ec)	CHALCOCITE	MOLYBDENITE	VOL-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS ppm Cu	AS Cu	Mo		Cu eq.			Graph. rx	crc
	Grnt			1					5						1	2	1							50°-60° frac	ortho along frac @ 129', 130', 132' & 142'		JS											
				1		1			4						1	2	1							10° qtz cal. vnlt	alt. ortho @ 134'	100		214	130		122		<5					
															1	1	1							slk along 30° frac @ 136.5' 40° & 60° frac	minor pyr in frac													
				1												1										100		215	140		115		"					
150																								Cal in // frac	ortho along 30° frac @ 157'													
																								Cal & pyr in 40° frac		100		216	150		88		"					
																								65° frac														
																								10° & 80° frac		93		217	160		50		"					
																								20° frac	cal in frac @ 172.5' & 173'													
175																								20° & 60° frac		100		218	170		42		"					
																								50°-65° frac														
																										108		219	180		55		"					
																										98		220	190		95		"					
200																																						
																										101		221	200		108		"					
								1																														
																									slk w/ ortho @ 214'	99		222	210		135		"					
225																									occ. Cal vnlt	100		223	220		128		"					
																1																						
																										106		224	230		200		"					
																1																						
																1										88		225	240		86		"					
250																																						

geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START ____ COMPL. ____ WH D HOLE No. 1

COORD.: N ____ E ____ EL. ____ BRG. ____ INCL. ____ LOCATION ____ T.D. ____ DRILLED BY: Jay

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE	VOL-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS Cu	AS Cu	Mo		Cu eq.			Graph. rx		ore
	Grnt		2																					10° & 65° frac	lox. cl in 10° frac	100	JES													
																1																								
			1						E																cl along frac	100														
									1															45° - 50° frac															
275															1									40° & 50° frac	pyr in 40° frac	109												//		
									1																ortho & carb along 50° frac													/		
						1										1/2	1							40° & 60° frac	qtz along 60° frac	92												//		
																									1/2" Cal pyr vn @ 60°													/		
																										102														
300																																								
																								40 & 60° frac		98												//		
																										100														
																								30 & 50° frac																
325																										96												//		
																								45° frac vuggy frac @ 60°	minor carb intrusion ortho & pyr along frac													//		
				3																						103														
			3	2	2				1															1/2" 65° marl. vn @ 336	after above & blw vn 336-351													/		
			3	2	2																					88														
350				2	2										3									vuggy cal vn @ 349'	carb unit thru													/		
																								60° frac	fresh grnt	105												/		
															1										vuggy cal @ 359															
																										99														
375																								30° & 70° frac		101												/		

Note: relative amounts of alteration minerals indicated by numbers 1 through 10. Ex. 1 = trace, 10 = very large amount. Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START ____ COMPL. ____ WH D HOLE No. 1

COORD.: N ____ E ____ EL. ____ BRG. ____ INCL. ____ LOCATION ____ T.D. ____ DRILLED BY: Jay

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE			VOL-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS PPM Cu	AS Cu	Mo		Cu eq.			Graph. rx		ore
																										60° frac	trace of pyr in frac @ 375.5'		JEJ													
			1												1											5° & 60° frac		95														
																										60° frac		100														
400				1											1	1										60° & 25° frac	trace along 25° pyr along 60°														
				2											1	1										"		93														
				2											1											"																
				2					1						1											"	ortho along 60° @ 413	100														
				2											1																											
425				2											2	1												100														
				2											2	2	1									Minrl in 50° frac	1/8" 50° cal pyr. vnlt.														
				2											2	1	1									433.5' 20 mp. 50° frac w/ ~~with~~ ccp in one	Secondary orth ass. w/ cal @ 70° @ 433.5'	91														
				2											1		1									50° & 25° frac	cal & ccp along 50° frac widely spaced														
				2											1		1									"	"	109														
450															1											25° frac dom.	cal in frac.														
															1											"	"	90		226	450		203		9						
			1	1					2																	3 distinct frac pat. @ 45°, 50° & 25°	2" cal vn @ 45° @ 488', alt cal along 25° & 50', cp along 45°														
																										25° & 50° frac 40° minrl vnlt @ 461.5'	Cal in frac w/ occ cp @ 50° moly in 60° frac @ 465'	109		227	460		33		5						
475																				1						20° & 50° frac.	ccp in 50° frac @ 471'	10		228	470		210		13						
			2	2		1									2											Qump. 30° Cal filled frac. @ 475'	ccp vnlt @ 50° @ 476', alt 476' - 479', 50° cal & qtz vns														
						1			1						2											25° frac.	ortho @ 484' w/ 3/8" qtz vn.	10		229	480		192		5						
				1		1									1		1									25° & 40° frac	occ. ccp in 40° frac, cal or qtz in 25°														
				1																						30° frac		10		230	490		52		5						
500						2			1																	25° & 60° frac	60° qtz vnlts														

Note: relative amounts of alteration minerals indicated by numbers 1 through 10. Ex.: 1 = trace, 10 = very large amount. Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (80 07 8)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Wheaton — START — COMP. — WIT D NO.

COORD.: N — E — EL. — BRG. — INCL. — LOCATION — DRILLED BY: Jay

Depth	ROCK TYPE	EPIDOTE	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	PY : CPY (cc)	CHALCOCITE	MOLYBDENITE		VOL.-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS ppm Cu	AS Cu	Mo		Cu eq.			Graph. rx		ore
	Gnt								2						1	1	1		2						40° frac w/ 1" ortho on bottom & alter	moly in frac @ 628' w/ alter		JES													
										1															45° frac	minor sulf	100		244	630		280		11						
																									70 & 50° frac	fe ox in 50° frac ortho alt along 70°														
																									45° - 60° frac	inclusions Common	101													
																									30° - 60° frac	" "														
650																																									
																									30 - 50° frac		102													
									2						1	1									Pyr in 30° & 45°	Cal in frac w/ minor pyr. & inclusions thru														
									2						1	1									"	"	99													
															1	1									"															
															1	1											100													
675															1	1									40° - 50° frac	1/4" cal vn @ 45° @ 681'														
									1						1	1									"	cal vnlt w/ ortho 40° @ 680.5'	100													
									1						1	1									40° - 60° frac	minor ortho along frac														
									5						1	1									ortho 693 - 694' w/ 60° cfc	8" inclusion @ 692'	100													
									2						1	1																								
700																																									
									1						1	1									30° - 60° frac	ocp in pyr cal vnlt @ 701.5' ortho along ~~cfc~~ @ 50° cfc w/ pyr in frac @ 709'	98		245	700		235		nil								
									1						1	1									"															
									1						1	1									40 - 60 frac	inclusion @ 713.5' 1/2" cal vn w/ ortho along cfc 714'	101													
									1						1	1									60° frac	occ. cal & pyr in frac														
725									2						1	1									30° - 60° frac	"	99													
																									"	"														
									4						3										50° frac	cal vnlt w/ ortho etc inter	101													
									1						1	1									40° cal pyr vnlt @ 732'															
									2						2	1									3 cal vnlt 2" apart 1/16" - 1/4" - 3/8" @ 740	@ 40° hanging in thickness from 5 - 7440, latter 1/4"	87													
75			2						5						3										v. frac @ 20° - 50°	cal in frac														

Note: relative amounts of alteration minerals indicated by numbers 1 through 10. Ex. 1 = trace, 10 = very large amount. Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (rev 5/68) GEOLOGY - ASSAY - COMPOSITE DRILL HOLE LOG

Sheet 2 of 11

PROJECT Whetstone START ____ COMP. ____ DRILL HOLE No. 1

COORD.: N ____ E ____ EL. ____ BRG. ____ INCL. ____ LOCATION ____ T.D. ____ DRILLED BY: Jay

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (est)	CHALCOCITE	MOLYBDENITE		VOL.-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV	ASSAYS Cu	AS Cu	Mo		Cu eq.			Graph. rx	ore
			2	1				2	6						2	1										pyr inclusion @ 75''	101	JES											
			2					2	5						3	1									wht & pink qtz & vlt @ 40° & 85°														
			2					3	5						2	1										rk less alt ~~[illegible]~~ 762' - 764	102												
			1					1	2						1	1	1								60° frac	& blw 766'													
775									1						1	1	1								1/4" cal, pyr, cpp vnlt @ 772	occ minor cpp in this frac	99												
									1						1										40° - 60° frac														
			1						2						1										"		97												
																									"														
																									"		95												
800									2							1	1								"														
			3						2							1	1									minor cpp in frac @ 40°	104		246	800		1040		nil					
									2						1	1	3									cpp incr along frac													
						1			3						2	1	2								1/8" cpp qtz vn 777 vnlt @ 814.5'		98												
									1						1	1	1																						
825						2			2						1	1	2								3/4" qtz vn @ 30° w/	cpp @ 824.5'	100												
			1						1						1										30 & 60° frac	1/4" cal vnlt @ 828.5'													
															1										20° - 30° frac	1/4" 40° cal vnlt @ 832.5'	99												
															1										frac @ 20°	1/4" 70° cal vnlt @ 836													
			2						2						3	1	1								40° 1/4" qtz vnlt @ 845'	3/8" 40° cal vnlt w/ cpp & pyr @ 840.5	102												
850						1									[illegible]											also 1" 40° cal vn @ 842 & 1/4" @ 842.5													
			1												3										25° - 30° frac	~~[illegible]~~	105												
			1			2			1																														
			1			2			1																frac @ 15° & 55°	3/8" cal vnlt @ 30°, 1/4" qtz vnlt @ 50° @ 863'	104												
875																											96												

Note: relative amounts of alteration minerals indicated by numbers 1 through 10. Ex. 1 = trace, 10 = very large amount. Assay data to scale vertically (10ft./inch), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68) GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

Sheet 8 of 11

PROJECT Whetstone 75 START COMPL WD HOLE No. 1

COORD.: N E EL. BRG. INCL. LOCATION T.D. DRILLED BY: Jo

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE	VOL.-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS PPM Cu	AS Cu	Mo	Pb	Cu eq.	Zn	Ag	Graph. rx	ore
	GMT																										JES													
						1									1		1								40° cal vnlt - 1cm @ 887'	100													1	
																								Prev @ 45° Variable frac														1	
																										102														
900																																								
																										102		247	900		355		nil						
															1										1/2" cal vn @ 908.7															
			1						1																	98		248	910		1100		nil				nil	1	
																									WK cal pur vnlt @ 40° 919'-919.5'														1	
925																									6" qtz cal vn @ 921 @ 40°	100		249	920		1830		nil				nil	1	
				1											1																									
			3																						alt 932'-935'	97		250	930		9000		15	1950		3000	nil			
																2	5							40° frac in qtz	30° CTC Qtz ccp cal vn 935'-937'											2' int of qtz ccp			
																1	2							frac @ 35°		102		351	940		1360		5					1	
950																1	1																							
				1																				40° frac @ 52.5'		93		252	950		1170		nil					1	
				1																				35° frac	99 in shear zn @ 958'													1	
																								50° frac	cc. incl	100														
																								40° frac																
975			3	5					1								1							Shear @ 40° to //	C/4 99 in Shear zn @ 972'-974'	97													1/	
			3						2															~~[illegible]~~	alter above 981'															
			1						1																	100														
															2	1	2							ccp in 40° frac	cal. in 70° frac @ 80° to frac w/ ccp														X	
									1						1											100														
1000									1						1																									

Note: pelvis comprise of alteration minerals indicated by numbers 1 through 10. Ex. 1 = trace, 10 = very large amount. Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive, portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START COMPL. WH D HOLE No. 1

COORD.: N E EL. BRG. INCL. LOCATION T.D. DRILLED BY: Stoy

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE		VOL-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV	ASSAYS ppm Cu	AS Cu	Mo		Cu eq.			Graph. rx		ore
																	2								ccp in 40° frac	Rhyolite dike @ 30° 1½" pink @ 1005'	100	JES	253	1000		410		7							
															1										cal @ 30°																
																									frac @ 20°, 30°, 60°	occ Xenoliths	100												0		
																									"																
1025			1					1							1												103														
			1					1							1																										
			1	1		1		2						3	2	1									cal on @ 50°-60°	3/4" qtz vein @ 25° @ 1033'	103														
			1					1							1																										
								1																	40° frac w/ qtz		100												/		
1050								1									4								50° frac.	1/2" pink Rhyolite @ 50° @ 1044'															
								1							1	1									"		100														
															1	1									"														/		
								2							2										40° frac		97												/		
																									"														/		
1075			2					1																	"	occ Xenoliths	101												0		
																									"														/		
																											100														
																									50° frac		100												/		
1100			2	1				1																																	
								2							1	1											100		254	1100		480		nil							
																										3/8" cal @ 40° vn w/ ccp & Pb @ 1104'														/		
			2												1	1	1								frac @ 50°	fault zone 1114'-1115'	98												/		
1125																1											101														

Note: printing amounts of alteration minerals indicated by numbers 1 through 10. Ex. 1 = trace, 10 = very large amount. Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START ____ COMPL. ____ WH D HOLE No. 1

COORD.: N ____ E ____ EL. ____ BRG. ____ INCL. ____ LOCATION ____ T.D. ____ DRILLED BY: Joy

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE		VOL.-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV	ppm ASSAYS Cu	AS Cu	Mo		Cu eq.			Graph. rx	cre
																									40° frac			JES											
																											98												
			2						1																	3/4" cal vn @ 30° @ 1141'	101											1	
1150			2						1						2																								
									1						1												101												
			3						1						5										80° cte along	Cal intrusion 1158'-1160'											1	
			3	1					1						1/8												98												
									1						1																								
1175																											96												
									1						1	1																						1	
																									frac @ 30° & 50°	1/4" cal vn @ 20° @ 1185'	100												
																									20° & 40° frac														
			3	3					2																40° fault w/ 1/8"	alt. 1191'-1197'	99											//	
1200			3						2																1173'-1195'														
															1	1	1								40°-60° frac		104		255	1200		300		nil				//	
																									"	~~Alt. 1233'-1237'~~													
																									"	~~frac 30° @ 10°~~	101												
																									"														
1225			-	2																							100												
				3																																			
				3																							103												
				1																						f/4 gg @ 1231' - 1240'													
				1																						10° frac to 1247'	103											1	
1250				1																																			

Note: relative amounts of alteration minerals indicated by numbers 1 through 10. Est. 1 = trace, 10 = very large amount. Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone STARTED 2-6-70 COMPL. 3-20-70 WH DH HOLE No. 1

COORD.: N ____ E ____ EL. ____ BRG. ____ INCL. ____ LOCATION ____ T.D. 1312 DRILLED BY: Sou

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : spy (cc)	CHALCOCITE	MOLYBDENITE	VOL. % SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS PPM. Cu	AS Cu	Mo	Pb	Cu eq.	Zn	Ag	Graph. rx		ore
	GWAT																								1/2" cal pyr vn @ 40° @ RSI	103	JES													
									1						1	1								frac @ 40°																
				1											1										flt gg @ 1262'	103														
																								50° frac																
1275															1		1			1						100														
																										100														
			1						1						2	1	1							vn @ 40° frac @ 60°	minor cal vn w/ ccp & pyr															
																1	1							45° frac w/ minor ccp		97														
1300																																								
																										100		256	1300		165		nil	nil		nil	nil			
															1		1																							
																								55° frac		100														
TD 1312																																								

Note: relative amounts of alteration minerals indicated by numbers 1 through 10. Ex. 1 = trace, 10 = very large amount. Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

Sheet 1 of 6

PROJECT Whetstone

START 3-25-70 COMPL. 4-10-70 WHD HOLE No. 2

COORD.: N ——— E ——— EL. ——— BRG. Vert INCL. Vert LOCATION ———

T.D. 753' DRILLED BY: Jay

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : spy (ec)	CHALCOCITE	MOLYBDENITE		VOL-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	PPM ASSAYS Cu	AS Cu	Mo		Cu eq.			Graph. rx	ore
	Grnt																										1	JES											
																									10°, 60° & 80° frac		90												
																									20°, 30° & 65° frac		100												
																									15° & 85° frac														
25																									"		101												
																									"														
																									30° & 75° frac	minor cu ox in 30° frac b/w 30'	100												
																									25°, 30° & 65° frac	cu ox in 25° frac													
																									25° & 75° frac	" " " "	100												
50																									30° & 70° "	cu ox in 30° frac													
																									"	"	100												
																									20°-30° frac	cu ox in 20°-30° frac													
																									10°, 30° & 40° frac		100												
								1							2										30° frac w/ cu	occ incl, reddish carb vnlt @ 40° @ 66'													
75																									30° & 80° frac	cu ox in 30° frac	99												
																									"	"													
																											94												
																									70°, 80° & 20° frac														
			2																						frac 30°-40°, 80°-//	alt 91'-97.5'	98												
100																																							
																									60° & 80° frac		102		257	100		620		nil					
		2					1							1											70° frac	1' 70° cal vnlt @ 106' alt 105.5'-112'													
																									Irreg. frac	Cal @ 70° @ 111'-112'	100												
																									35° & 75° frac	cp in 35° frac @ 117' slt sg in 30° frac @ 117.5'													
																									30° & 50° frac	minor cu ox in 30° frac	105												

geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START ____ COMPL. ____ WHD HOLE No. 2

COORD.: N ____ E ____ EL. ____ BRG. ____ INCL. ____ LOCATION ____ T.D. ____ DRILLED BY: ____

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE		VOL. % SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS PPM Cu	AS Cu	Mo		Cu eq.			Graph. rx		ore
									1																30° & 80° frac			JEF												
																									Pred. 80° frac	minor Cu ox in 30° frac @ 138'	104														
																									"																
																									30°, 50° & 75° frac		100														
																									30° frac incr																
150																1									30° & 40° frac	occ ccp in 30° frac	92		258	150		1000		12							
																2									"	ccp in 30° frac @ 157.4'															
																1									30° & 20° frac	"	106		259	160		650		Nil							
																1									v. tight frac																
175															1	1									30° & 80° frac		100		260	170		500		Nil							
															1	1									"																
																1									"		107		261	180		590		Nil							
																1									"																
																1									"		102		262	190		250		Nil							
															1										"																
200																1									"	occ incl, Cu stain in 30° frac @ 204'	98		263	200		540		<5							
																									"	clay & native Cu in 30° frac @ 216'															
																									v. frac 214'-215' incrs frac	alt w/ox flt gg in frac	98		264	210		352		5							
																									frac to 216'	ccp in 30° frac															
225																1	1								30° & 80° frac	"	105		265	220		414		Nil							
																1	1								"	"															
																1	1								"	"	100		266	230		284		Nil							
																1	1								"	"															
			2						1						3										"	alt w/ox inter 241.5' - 242' bnes @ 242'	99		267	240		360		Nil							
			2						1						2										70° 1½" calcite @ 244' & @ 250'															

geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START COMPL. WH D HOLE No. 2

COORD.: N E EL. BRG. INCL. LOCATION T.D. DRILLED BY:

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE	VOL.-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ppm ASSAYS Cu	AS Cu	Mo		Cu eq.			Graph. rx	ore
				3																				30° & 80° frac	alt to 254.5' Kaol 252.5-254.5'	97	JCJ	268	250		406		Nil						
																	1							" " " w/ occ 50° frac														
																	1							"		99		269	260		632		6						
																	1							"	4" incl @ 268'													
275																	1							"	small incl thru	100		270	270		600		<5						
				1													1							Kaol in 10° frac @ 272'	"													
																	1							30°, 60° & 80° frac	cpy in 30° frac	100		271	280		760		20						
																	1							"	"														
				1													1							" 5° frac w/ clay	"	100		272	290		624		<5						
																	1							30° & 80° frac	"														
300															1									"	cal vnlt in 80° tension frac @ 303'	100		273	300		824		Nil						
			1												1									"															
			1						1						1										occ cal vnlt	101		274	310		610		Nil						
			1						1								1																						
																	1									98		275	320		580		Nil						
325																	1								numerl frac incr														
																	2									92		276	330		506		7						
																	1																						
																	1	1							red stain (Cu) in 30° frac	102		278	340		714		Nil						
																	1	1							1/2" aplite dike @ 20° @ 345' (cutting frac @ 60°)														
350																	1	1		1						100		277	350		310		12						
																	1	1		1																			
									1								1			1				25° frac	ucp & moly in frac	100		280	360		178		12						
									1								1			1				"															
									1								1			1				"		100		281	370		124		8						

Note: relative amounts of alteration minerals indicated by numbers 1 through 10. Ex. 1= trace, 10 = very large amount. Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START ____ COMPL. ____ WHD HOLE No. 2

COORD.: N ____ E ____ EL. ____ BRG. ____ INCL. ____ LOCATION ____ T.D. ____ DRILLED BY: ____

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (tc)	CHALCOCITE	MOLYBDENITE	VOL.-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	PPM ASSAYS Cu	AS Cu	Mo		Cu eq.			Graph. rx		ore
																	1			1				fract @ 25°	minor cpy & Moly in 25° fract		JCF											1		
									1								1			1				20° & 45° fract	Pink ortho in fract @ 285' @ 25°	105		291	380		130		10					1		
																	1			1				"														1		
																	1			1				10° fract @ 292.5'		94		292	390		162		16					1		
																	1			2				"														1		
400																																								
																	1			2				"	Moly incr	104		293	400		194		16					1		
									1								1			2				"	Pink ortho in 45°-70° fract													1		
																	1			2				"		100		294	410		74		18					1		
																	1			2				"	zeolite in 25° fract @ 416'													1		
																	1			2				20° fract	Pink ortho in 50° fract 423'-424'	100		295	420		122		14					1		
425																																								
																	1			2				"	Pink ortho in 80° fract @ 427													1		
																	1			2				15°-20° fract	1/4" 50° qtz Moly dike @ 431' & 40° " " " @ 435.5'	100		296	430		100		20					1		
																	1			2				"														1		
																	1			2				10° fract @ 442'		97		297	440		88		18					1		
																	1			2				"														1		
450																																								
																	1			3						99		298	450		106		30					1		
																	1			3					1/2", 10° Qtz Monz dike @ 457'													1		
																	1			3						100		299	460		148		42					1		
																	1			3																		1		
																	1			3					Xenoliths @ 473'	100		300	470		164		30					1		
475																																								
																	1			3																			1		
																	1			3						98		301	480		188		30					1		
																	1			3					wht xenoliths w/ pyr @ 488.5'													1		
																	1			3						100		302	490		158		40					1		
																	1			3																		1		

Note: Relative amounts of alteration minerals indicated by numbers (1 = trace, 2 = moderate, 3 = abundant). Assay data to scale vertically (10ft./in.), geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 355 (Rev 5/68)

GEOLOGY - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START COMPL. WH D HOLE No. 2

COORD.: N E EL. BRG. INCL. LOCATION T.D. DRILLED BY:

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (cc)	CHALCOCITE	MOLYBDENITE		VOL-% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS ppm Cu	AS Cu	Mo		Cu eq.			Graph. rx		ore
																	1			2					25° & 40° frac	moly in frac @ 502.5' zeolite @ 25° in frac @ 504'	101	JES	293	500		134		22							
																	1			1					SIK in frac	mnrl in 25° frac w/ SIK															
																	1			1					"	"	100		294	510		76		16							
				2													1			1					"	"															
525				2																					10° frac w/ clay @ 524'	zeolite in 25° frac @ 519'	95		295	520		128		12							
																									"																
																									"		100		296	530		184		18							
				2																					15°-20° & 40° frac	Kaol in frac															
				2																						blk gg in 15° shear @ 544'	92		297	540		142		18							
				1																																					
550																																									
																											100		298	550		302		50							
																										v. tight healed frac w/ moly															
																										"	99		299	560		206		26							
																										"															
																										"	100		300	570		158		56							
575																									5° frac @ 580'	"															
																											100		301	580		220		16							
															1											Cal in 15°-20° frac @ 587' & 591'															
				1																							98		302	590		266		20							
				1																																					
600																																									
				2											2										frac Shear zn @ 604.5'-605'		90		303	600		364		26							
																										Cal in 20° frac @ 605.5'															
																										2" xenolith @ 612' wall in v. tight 15° frac	100		304	610		266		16							
																									40° frac w/ occ cal	alternating moly & cpy in healed 15° frac															
																										"	100	↓	305	620		426		38							

Note: relative amounts of alteration minerals indicated by numbers 1 through 10. Ex. 1= trace, 10 = very large amount. Assay data to scale vertically (10ft./in.) geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.

FORM 353 (Rev 5/68)

GEOLOG - ASSAY COMPOSITE DRILL HOLE LOG

PROJECT Whetstone START 3-25-70 COMPL. 4-10-70 WH D HOLE No. 2

COORD.: N ——— E ——— EL. ——— BRG. ——— INCL. ——— LOCATION ——— T.D. 753' DRILLED BY: Joy

Depth	ROCK TYPE	EPIDOTE, etc.	CHLORITE	CLAY	SERICITE	QUARTZ VEINS	SILICIFICATION	BIOTITE	ORTHOCLASE	HEMATITE	GOETHITE	JAROSITE	ANHYDRITE	GYPSUM	CALCITE	PYRITE	CHALCOPYRITE	py : cpy (ec)	CHALCOCITE	MOLYBDENITE			VOL.% SULFIDES	Est. % Cu	Est. % Mo	STRUCTURAL FEATURES	DESCRIPTION	% Core Rec.	LOGGED BY	Sample No.	SAMPLE DEPTH	SAMPLE ELEV.	ASSAYS Cu	AS Cu	Mo		Cu eq.			Graph. rx	ore
																	1			1						15° & 75° frac	alternating cal & moly in 15° frac			JEJ											
																										"		98													
																	1			1						"															
																	1			1						15°-20° & 65° frac		100													
650																	1			1						"															
																										"		100													
																										15°-20°, 40° & 20° frac															
															1		1			1						"	1/8" cal vnlt @ 20° @ 663'	100													
															1		1			1						"	xyl cal in 20° frac @ 669.5'														
675																	1			1						"		100													
			1																								Chl in 40° frac @ 677' cal in 20° " @ 678'													
																	1			1							Pink zeolite in 20° frac @ 686'	103													
																	1			1								100													
																											Pink zeolite in 20° frac @ 697'													
700																																									
																	1			1								99													
																	1			1																					
																	1			1							Cal in 20° frac @ 711° & @ 715'	97													
																											are inclusions of mafic rx													
725																												98													
																										15°-20° & 70°-80° frac															
																												101													
																											Pink zeolite in 20° frac													
																												100													

geology to scale as changes appear. Standard abbreviations to be used for rock type and descriptive portions whenever possible.